GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to: Generale Aeronautique Marcel Dassault

Date:

20 July 1965

Panam Building

New York 17, New York

S.O. No:

880-0-289

W.O.No:

430-0757-910

SALE OF TECHNICAL DATA

(1) Engineering Department is authorized and directed to duplicate two (2) copies each of the following reports:

ZJ-30-003 Analysis of Convair 990 Adverse Weather Systems.

ZJ-30-004 Convair 600 Engine Inlet Anti-Icing System Test
Results and Performance.

(2) Please forward the reports to the Commercial Contracts Department for submittal to Generale Aeronautique Marcel Dassault, Attention: Pierre Signargout Upon completion of task, Controller's Department, Billing Section, will prepare invoice in the amount of \$100.00 and forward to the Commercial Contracts

Department for submittal to the customer.

DHD:mm

Log No. 455

H. Digges

Director of Commercial Contracts

Sale to Cheer al Dymanics Convair Date Son Security 1964

Reference (a) Nemo In Filliggers.
W. S. Street dated W. S. S. 193

(b) Discussion D. H. Digges and G. W. Zahrte 7-14-64

(c) Meeting in D. H. Digges office 10 August 1964

HILL S! MATERIALS REQUIRED TO COMPLETE SHIP NO. 22 St. 1

the materials of estimates regarding the cost of materials parts which are contact to complete the attends to airline configuration. The most logical materials parts which are contact to accordance to be that of the last delivered 1% is found at a complete the interior in the parsonger comparinest from the windows updated panels, etc. In accordance with Reference (b) completion in the JAL 22M configuration is also to be reflected.

2) All concerned are accordingly hereby authorized to proceed with the

- (A) Curside purchased parts on hand or available
- b) Cutside purchased parts unavailable
- (c) Shop niado parte on hand or avaitable
- [d] Shop mace packs unaveilable

The three liming small include, but not be in ited to details, assemblies, is a problem of description necessary to completely the three days are not become for the problem.

To commercian with the above authorization, is is contemplated that planning that the to be originated in a ries that one or more sets of those distring one of a provided the attacked purchase of the district has purchase the according to the according to the task of planning that the last of planning the according to the last of planning that the last of planning the last of planning that the last of pla

11 August 1964 415 July 1964 6 Pursuant to Reference (c), a deck of cards is to be made reflecting the listing prepared hereunder, said deck to be used to assist the prospective customer in completing evaluation of requirements and related costs. (TWA configuration). Revised 8-11-64 to add Ref. (c) and Para. 6. CJD:p Revised 7-15-64 to amend para, I and add Ref. (b). CJD:p] D H Digges Director of Contracts

W & 7 - Farmons
(0-172B SALES ORDER GENERAL DYNAMICS/CONVAIR Sold to: General Dynamics/Convair 4 December 1963 Date: San Diego 12, Calif. S. O. # 880-0-287 W. O. # See below SHIPMENT OF CSD UNITS TO GENERAL ELECTRIC, ONTARIO 1. All departments concerned including Departments 42-6 and 171-0, are hereby authorized to remove from available 880 aircraft, seven (7) Constant Speed Drive units and forward at the earliest possible date to General Electric's Ontario, California, facility for inspection, updating and modification required to obtain extension of General Electric's warranty. 2. Three units removed from Ship 45 are to be charged to W. O. 30, 345 and four units removed from Ship 43 are to be charged to W. O. 30, 343. GDC:pj D. H. Digges Director of Contracts Log No. 2031

GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to:

Lockheed Aircraft Service

Ontario, California

Date:

19 September 1963

S. O. #

880-0-286

Reference: (a) Sales Order 880-1-443

(b) LAS Purchase Order

00-6907

W. O. # 30,734

RETURN OF LOANED GROUND SUPPORT EQUIPMENT

- 1. By Reference (a), certain Ground Support Equipment was loaned to Lockheed Aircraft Service and Reference (b) Purchase Order was issued relative to costs which would be chargeable as a result of the arrangements.
- 2. Return of the GSE to GD/Convair is scheduled to take place on Saturday, 14 September 1963, and Transportation Department personnel will be required to receive the returned equipment. Costs in connection with Saturday overtime pay for such transportation personnel are to be billed to the customer under Reference (a) Purchase Order.
- 3. Applicable overtime is to be charged to the above Work Order with reference to this Sales Order for purposes of identification.
- 4. Controller's Department is requested to accumulate the above costs and invoice Lockheed Aircraft Service accordingly.

Log No. 1652

GENERAL DYNAMICS/CONVAIR

Sold to:	General Dynamics/Convair San Diego 12, California	Date:	16 August 1963
Reference:	(a) Memo, R. L. Wintringer to A. L. Hendricks dated 15 August 1963	S. O. #	880-0-285
	(b) Telecon, C. L. Meador and R. L. Wintringer on 16 August 1963	W. O. #	30,790

MODIFICATION OF 880 AIRCRAFT NO, 1 TO THE TWA 22-1 CONFIGURATION

- 1. It is understood the task related to developing a Work Statement and subsequent cost estimate in accordance with the ground rules outlined in Reference (a) memo, will require a total of twelve men for not more than six weeks.
- 2. In accordance with Paragraph I above and Reference (b), this Sales Order authorizes those departments concerned to proceed immediately with the necessary work required to obtain the Reference (a) requested cost data. Said authorization is limited to twelve men for six weeks and shall include four Inspectors, two Planners, two Engineers, two Liaison Engineers and two Shop men.

Log No. 1481

2 August 1963

GENERAL DYNAMICS/CONVAIR

SALES ORDER

26 July 1963 24 July 1963

General Dynamics/Convair San Diego 12, Calif. Date: 1 July 1963 12 July 1963

17 July 1963

Reference:

Sold to:

(a) Lease Agreement between General Dynamics Corp. and Northeast Airlines. Inc. dated 17 Nov. 1960 S. O. # 880-0-284

(b) Telecon R. L. Wintringer and E. L. McDonald dated 23 July 1963

W. O. # 30,789

(c) General Dynamics-TWA Purchase Agreement dated July 24, 1963 30, 756 RECEIVED

(d) Telecon Hammersley and Wintringer dated 2 August 1963

AUG 7'63

REDELIVERY, INSPECTION AND STORAGE OF TWO NORTHEAST
AIRPLANES 880 AIRCRAFT - REGISTRATION NOS. N8480H AND N8483H

- 1. Pursuant to Reference (a) Agreement, six 880 aircraft were operated by Northeast Airlines and were subject to redelivery to General Dynamics under certain clauses of the aircraft. Such redelivery is now to take place on two aircraft (N8480H and N8483H) and will be accomplished at the Ontario, California facility of Lockheed Aircraft Service.
- 2. Material Department is requested to arrange procurement with the LAS Co, for storage of the two aircraft for a period of approximately one week from date of receipt. Consequently, unless so authorized by revision to this sales order, there shall be no preservation work accomplished on the aircraft at this time.
- 3. Upon arrival at LAS, Ontario, the subject aircraft and related engines shall receive a general inspection by appropriate Convair personnel, redelivered to GD/Convair and placed in storage at the LAS Ontario facility.
- 4. Costs in connection with the inspection, redelivery and storage of the aircraft shall be segregated under the above Work Order with reference to this Sales Order said costs shall be accumulated by the Controller's Department in connection with future activity related to the subject aircraft.
- 5. This Sales Order shall be revised at the time arrangements have been concluded and a definitive schedule established covering the return of the other four Northeast Airlines 880 aircraft.
- 6- By revision Assounting Dopartment-is-requested to-provide-necessary-issuanceseverage for the above-aircraft-during-the pariod-cold-aircraft-are at Ontario.

GENERAL DYNAMICS/CONVAIR

Sold to: General Dynamics/Convair

SALES ORDER

2 August 1963

Date: -17-3-19-3-

24 July 1963

-26 July 1963

S. O. # 880-0-284

W. O. # 30,789

30, 756

7." This revision authorines the Material Department to arrange for LAS to immediately accomplish the following on the cubject aircraft --

(a)--Wash-dewn-enso-a wook-

(b)--Install-cardboard-protection in all-windows

(a) - Close-all-ephnings-on engine-cowle-

(d)--Open-main-entrance-deers (weather-permitting)-on-a daily beeis-

- 8. This revision authorizes the Material Department to issue appropriate authority to LAS for the removal of engine S/N 403-208EK and the installation of engine S/N 161-280 (presently on site at LAS) on 880 aircraft Registration No. N8480H. All costs in connection with the foregoing shall be borne by General Electric.
- 9. Pursuant to Reference (c) Purchase Agreement related to the sale of A/C Nos. 12 and 23 to TWA, this revision authorizes Quality Control and Factory to dispatch to LAS, Ontario, the necessary personnel required to perform preflight inspection on subject aircraft. Since the aircraft, in accordance with the terms of Reference (a) Purchase Agreement, are sold in an 'as-where is' condition, preflight shall consist only of that task necessary to obtain safe flight condition on the subject aircraft.
- 10. Costs in connection with this authorization shall be charged to W. O. 30, 756.

11. In accordance with Reference (d), charges in connection with this authorization are to be paid by Convair upon receipt of appropriate invoice(s) from LAS, Ontario, and shall be limited to storage costs for the month of July 1963 and preflight assist from LAS personnel.

RLW:pj

Revised 8-2-63 to add para. 11.

D. H. Digges
Director of Contracts

GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to:

General Dynamics/Convair

Date: 30 June 1964

S. O. #

San Diego 12, Calif.

880-0-283

Reference:

(a) Staff Meeting of 30 June 1964

W.O.# 30345

REPAIR OF CJ805-3B ENGINES

- 1. Two of the engines which were installed on 22M aircraft Numbers 43 and 45 were found to be deficient when tested in connection with preservation procedures. These two engines require repair prior to reinstallation in Ship No. 45. (Ship No. 43 is being prepared for delivery by substituting a good engine from Ship No. 45 in the No. 4 position).
- 2. In accordance with reference (a) decision, this Sales Order authorizes procurement from General Electric of services to repair engines Serial Nos. 403-174 and 403-205 as required. Such procurement shall be made in full recognition that both engines have been overhauled and time in service since overhaul is approximately twenty hours per engine.
- 3. Costs in connection with this authorization are to be identified under the above Work Order.

CJD:pj

5. H. Digges

Director of Contracts

Log No.) 875

GENERAL DIPUNICS/CONVAIR

SALES ORDER

*Revised 15 August 1963

Date

26 February 1963

S.O. No.

880-0-282

Reference:

Sold to:

(a) Telecon, R. Mellison to C. J. Dutton, 2/26/63

Aircraft Gas Turvine Division

General Electric Company

Cincinnati 15, Ohio

(b) Telecon, V. F. Cermuto to C. J. Dutton, 2/26/63

*(c) Wire, P. F. Hunt to P. Peninger, 3/5/63

W.O. No: 30788

REMOVAL OF ENGINE FROM JAI. AIRCRAFT AND SHIPMENT TO GRIERAL ELECTRIC CO.

- (1) One of the CJ805-3B engines installed in Aircraft Production Serial No. 48 is subject to removal, inspection and reverk by the General Electric Company. A replacement engine is to be removed from Aircraft Production Serial No. 49 in order to maintain the delivery schedule for Ship No. 48.
- (2) Accordingly, all consermed are to proceed with the removal from Ship No. 48 of engine Serial No. 403-159 and to ship the engine to General Electric Company, Ontario.
- (3) Also authorized hereunder is the installation of Engine Serial No. 403-166 in Ship No. 48.
- (4) Costs in connection with this authorization are to be accumulated for billing to the General Electric Company under reintersement arrangements which have been made in accordance with Reference (a). **Controllers Department is requested to originate an invoice to GE in the amount of \$600.00 in accordance with Reference (c) commitment.

Con: ed.

Leg No. --- 1479

b

Director of Contracts

Regised to add Ref. (c) and add to Para. (4).

CHIERAL DYNAMICS/CONVAIR

SALES ORDER

#Revised 15 August 1963

Sold to: General Electric Company

Aircraft Gas Turbine Division

Cincinnati 15, Ohio

Date:

11 February 1963

S.O. No:

280-0-281

Reference:

(a) Telecon, R. Mellison to C. J. Dutton, 2/11/63

*(b) Wire, P. F. Hunt/W. Parry, 15 February 1963

W.O. No:

30787

REMOVAL OF ENGINES FROM JAL AIRCRAFT AND SHIPMENT TO GENERAL ELECTRIC CO.

- (1) Two of the CJ 805-3B engines installed in Aircraft Production Serial No. 48 are subject to removal, inspection and rework by the General Electric Company. Replacement engines are to be removed from Aircraft Production Serial No. 49 in order to maintain the delivery schedule for Ship 48.
- (2) Accordingly, all concerned are to proceed with the removal from Ship 48 of engine Serial Nos. 403-161 and 403-166 and ship these two engines to General Electric Company, Ontario.
- (3) Also authorized hereunder is the removal from Ship No. 49 of Engines, Serial Nos. 403-159 and 403-204 and reinstallation of these two engines in Ship 48.
- (4) Costs in connection with this authorization to be accumulated for billing to the General Electric Company under reimbursement arrangements which have been made in accordance with Reference (a). *Controllers Department is requested to invoice GE in the amount of \$300.00 per engine (total \$600.00) as agreed upon under Reference (b).

CJD: ed

Log No. 352-1478

*Revised to add Ref. (b) and to add to block para. (4).

D. H. Digges
Director of Contracts

GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to

General Electric Company

Aircraft Gas Turbine Division

Cincinnati 15, Ohio

Date:

19 December 1962

S. O. No:

880-0-280

Reference: (a) General Electric letter dated 12/12/62 (W. J. Wojtaszek to

R. L. Mellison)

W.O. No: 30,000 Series

SHIPMENT OF ENGINE TO GENERAL ELECTRIC COMPANY

- (1) Pursuant to reference (a) General Electric Company has requested preparation for shipment of engine Serial No. 175-190 to the General Electric Ontario facility. Inspection and replacement of the turbine rotor torque ring is involved.
- It is understood the engine at present is in storage in Bldg. 4. The task (2) to be performed hereunder is the preparation for shipment to Ontario and receipt of the reworked engine and returning of same to storage.
- Costs in connection with this authorization are to be billed to General Electric. (3)

CJD/IR

Log No 3239

D. H. Digges

Manager of Contracts

WZ-Fizzinons 6-122B GENERAL DYNAMICS/CONVAIR BASIC MINUTES 22M 19 September 1962 No. 10

Reference (a) Customer Service Order 1700-503, dated 9-13-62 (b) C.P.O. 62-127, Rev. and rewritten 7-26-62

MODEL 22M ROLLING TAKE-OFF CERTIFICATION

As evidenced by Reference (a), sufficient customer acceptance of our proposal, Reference (b) has been received to warrant accomplishment of this task.

By copy of these minutes, affected engineering groups are authorized to proceed immediately to consummate the program.

ACTION: Engineering Flight Test shall institute appropriate procedures necessary to obtain FAA approval and flight manual revisions. Costs incurred are chargeable to AWO 90097 and shall not exceed those defined in Reference (b).

M. L. Clayton
Asst. Project Engineer

SEMENAL DEPARTS/CONVAIR

SALES ORDER

Sold to:

General Electric Company

Aircraft Gas Turbine Division

Cincinnati 15, Ohio

Date:

22 August 1962

S.O. No:

880-0-279

Hafarance:

(a) Memo, R. Mellison to C. Dutton

W.O. No:

30773

ENGINE REMOVAL AND REINSTALLATION CJ 805-3B ENGINES ONLY

- (1) In accordance with Reference (s), Reference (a) arrangements have been negotiated with General Electric Company to reimburse GD/Convair for labor in connection with the removal and reinstallation of certain -3B engines and for other assistance related thereto.
- (2) Accordingly, this sales order authorizes accomplishment of the task as identified in Reference (s) Reference (a) such work being restricted to activity on the following engine serial numbers which must be identified in all transactions under this authorization.

S/N 103-116 per Reference (a)

(3) Furchasing Department will advise Accounting Department of the terms negotiated with the customer relative to this authorization and Accounting Department will criginate invoices accordingly.

CJD:ed

Log No. 1667

Multon S. Chambers

Manager of Contracts

BALLS OH SE

Fitzeimmons 6-122B

Ul tel General Dynamics Conveir San Diego 12. California Date: 20 July 1950

own Diego 12 Calliornia

3 No: 88043-277

and J. H. Famme, 19 July 1962

W.O. do 30,100

Thi Meeting-Messrs, Pages, Gordon, Histringer, Monsees and Mellison

4Restand 2 August 1962

GE Ltr. H. J. Rodrique to P. L. Mellison

****Revised 7 February 1963

to C. J. Dutton, 2/5/63

IGA SUSPECT IS ENGLISS - SHIPS 43, 75,

of the Stillowing - 30 ongines from the ussoid Model 22M Shir Nos and an

Engine Ro	Ship No.
103-109	45
403-11	45
403-135	42

- After regived, the above specified (38 engines are to be shaped to 614 Cookes) there is Yes litty at Ostagio, Celifornia for ICA mapes inc.
- Work Trees was 10.731 and recovered from Garden's limited and low whereast to
- In accordance with the approval received during reference in most of this convince of an extra this convince of the following additional of employs the suppose to several Electric Options, for MA Juspection

Engine No.	Ship No.	DECEIVED
403 101	37	RECEIVED
403-115 403-116 401-117	7) 31 37	FEB 11'63
103-118		
104-120 114-150		
7113 1113	146	

PaGE 3

356

Here Similar so and here (b) is (c) and name 4 and 5

to the treet on /Garvalt

Daniel 20 July 1952

.0. 30 830-0-273

W.O. No. 30,131

****30,337 - 30,345

PAGE 2

The state of the Service Bulletins and Service Bulletins shall be born by Convair. The Service Bulletins shall be born by Convair.

####W.O. 30.345

in Ship #45, and W.O. 30,337 is applicable to those for Ship #37 as indicated in this Para. (6) above.

DESERVAL DYNAMICS/CONVAIR

SAUES OF DE

MRevised: 11 October 1962

or where and deline middle

SO No. 889-0-276

Aircraft Cas Terbine Division
Cincinnati 15. Obio

Weference:

(a) Meno, R. L. Mellicon to C. J. Dutton, 3 October 1962.

JAL 880M CHANGE OF ENGINE

- (1) One of the engines on Production Serial No. 22-7-9 (No. 41) which tax tends JAL registry JA 8025 was subject to change due to all leavings problems
- (2) Fursuant to discussions in S. J. Berinks's office on 21 June 1962 all concerned are hereby authorized to proceed with the engine change in question, one of the engines from aircraft Production Serial No. 49 is to be substituted for the removed engine.

*repair of the engine will be borne by

(3) Costs in connection with /ricranthericalization received by Gameral Electrical Electrica

030/12

Dog No. 2024 1935

*Revised to add Ref. (a) and correct Pars. (3)

De letter

F. S. Chamber Manager of Contracts 3 AUG 87462 QUAX HAT

GENERAL DYNAMICS/CONVAIR

Ad. Brown 6-122B

BASIC MINUTES 22M

12 April 1962

No. 9

Reference: Sales Order 880-0-274 dated 6 April 1962

UNSOLD MODEL 22M AND MODEL 30 A/C

Referenced Sales Order authorizes the release of engineering required to complete the manufacture of Model 22M aircraft, Production No. 37, in accordance with Detail Specification Report 22-00-303, as amended by Addendum No. 5 thereto.

ACTION: Engineering design groups listed shall be responsible for the revision of all engineering task summary schedule sheets to reflect effectivity of the following changes on 22-3 #1:

COR 22-70500	Mechanisms Group
70501	Environmental Control
70503	Furnishings
70504	Furnishings
70506	Furnishings
70507	Furnishings and Structural Design
70509	Avionies
70510	Avionics
70511	Avionics
70512	Furnishings

It will not be necessary to issue ECN's as specified in DRM Special Instruction #13. This task will be accomplished by Release Group.

The Project Office is to be notified of known differences between 22-3 #1 and #2 - #7 which are not reflected above. This task is covered by AWO 30337 and EWO 50358.

M. L. Cayton MF. Herbert Sharp Project Engineer

Revised: 18 December 1961 Revised: December 1961

Datase

20 Mirrandoro 1961

S.O. No. 880-4-273

3-176 to:

(a) Agreement Letter 10.0-3350

General Dynamics Convair

Sun Diego 12, California

W.O. do. 11/11/11/11/11

- (b) Name, Characters to Newl, 2 Hovember 1961
- (a) JAL Letter MARRON-628 dated 16 Hovember 1961
- (d) TWI SWA24 Dated 12-6-61, JAL/Anderson

CONVAIR 880 - JAPAN AIR LINKS

JAL AND CAT AFFERDAY ACTIVATION

- (1) Pursuant to the terms of the Reference (a) Agreement and in line with the request of Reference (b), Department 170 is satherized to furnish an autopilot specialist for accomplishment of the subject activation at the JAL featility it is further anticipated that similar activity may be assessed. for CAT of Taipei, Formone.
- (2) Departure time will be predicated on sord from JAL we noted component installation. This task is estimated to be completed in ten (10) days. Department 170 vill be informed by Mr. L. J. Bordelon upon completion of the above Jal. 专种的人
- *(3) We are advised by Reference (d) TWX that JAL desires to begin autopilot activation on Desember 14, 1961; therefore, the Travel Orders for the specialist, as provided by Paragraph (1) above, should be effective beginning Feeesber 11, 1961.
- *(4) It is anticipated that the CAT autopilot work will be accomplished in Tokyo and arrangements are being completed to schedule such work.
- *(5) All expenses, Including salary, travel and per diem, are to be charged to the above work order

Diamend.

3369

Revised to add Reference (d) and Paragraphs 3, 4, and 5. Therefore to though North Caller from 30,000 to 30717

2. 7 8 Chambers

W. F. Brown 6-122

GENERAL DYNAMICS/CONVAIR

Sold to: Conveir

A Division of Gameral Dynamica Corporation San Diego 12, California

Sales Order

Date: 19 September 1961

80 No: 860-0-272

WO No: 30,000 Series

REMOVAL OF AIRCRAFT 22-00-46 FROM STORAGE

- (1) This Sales Order authorizes all concerned to remove Aircraft 22-00-46 from storage and proceed immediately to complete said aireraft to a minimum operational configuration required to conduct flight tests necessary to obtain full FAA certification of the Bendir autopilot.
- (2) Upon completion of the conduct of such tests the aircraft is to be returned to storage unless otherwise directed by revision to this Sales Order.

ELM: hs

108 No. 2738

Mamager of Contracts

CONVAIR - SAN DIEGO

Sales Order

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California Date: 12 May 1961

SO No:

880-0-270

AWO No:

141-4

Acct No:

1103-2

DEMONSTRATION FLIGHT AMERICAN ATRITUES

- (1) This Sales Order authorizes a demonstration flight on Ship No. 4, 990, on 15 May 1961 for the following American Airlines personnel; F. C. Wiser, Vice President Technical Services; W. C. Laurence, Vice President Engineering; F. W. Kolk, Assistant Vice President Research and Development; G. H. Brink, Director Aircraft Development; and W. K. Owen, Acceptance Pilot.
- (2) Any costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

HBD: hs

Log No. 1724

A Schamber

F. S. Chambers

Managar of Commercial Contracts

CONVAIR - San Diego

SALES ORDER

Sold to:

Convair - A Division of General Dynamics Corporation San Diego 12, California

Reference:

(a) Memo, J. J. Alkazin to F. S.
Chambers, 8 May 1961
(b) CPO 61-100-1 dated
17 April 1961

Date: 11 May 1961

S. O. # 880-0-269

W. O. # 30,634

MODIFICATION OF PROCEDURES TRAINER - MODEL 22M

1. Pursuant to Reference (a) this Sales Order authorizes all departments concerned to proceed with the modification of the Model 22M Cockpit Procedures Trainer to a configuration which will be suitable for use for all customers. Changes required to effect such modifications are set out under Reference (b).

Log No. 1712

F. S Chambers
Kanager of Commercial Contracts

ELM:pj

ONVAIR - SAN DIEGO # 9 June 1961 Soll to: Cenvair Date: 4 May 1961. A Division of General Bymsmics Corporation 30 No: 880-0-267 San Diego 12, California 141-4 AWO Nos 1103 Acct No: DEMONSTRATION FLICHT (1) This Sales Order authorizes a demonstration flight for Mr. Bill Beed, Aviation Baily; and tr. Dick Van Osten, Airlift Magazine. This demonstration flight till be on 4 May 1961. (2) Any costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

Log No. 1664- 1943

RBD: hs

Revised 6-9-61 to Cancel

47. S. Chambers

Manager of Commercial Contracts

KERY JUST OF SPREE STARRES

old to: General Electric Company

Aircraft Gas Turbine Division

Cincinnati 15, Chio

Date: 27 April 1951

8.0. No: 830-0-266

teference: (a) Letter dated 26 April 1961, Charles Hyde, Jr. of General Electric to R. L. Hellison, Convair

(b) Mero, dated 27 April 1961, R. L. Mellison

to E. L. McDonald

W.C. No: 30,770

CONVAIR 680 - SHIPPENT OF CHURAL ELECTRIC CJ805-38 ENGINES

- (1) Tw reference (a), General Electric Company has requested the return of twelve (12)
- (a) Pursuant to reference (b), this Sales Order authorizes all departments concerned to proceed with arrangements for the return of said engines to General Electric at Ontario is accordance with the following schedule:

Magines serial No. 's 403-132, -142, -146, and -149 scheduled for sircraft No. 45 and presently in storage at Rohr, will be picked up by General Meetric on 27 April 1961 and returned to Rohr on or before 5 May 1961.

Magines serial No.'s 403-109, -110, -111, and -112 scheduled for eigeraft No. 43 and presently in build-up at Rohr will be picked up by General Magric on 23 April 1961 and returned to Rohr on or before 3 May 1961.

Magista serial No. s 403-120, -121, and -123 presently installed in sireraft 22-7-4 and angine serial No. 403-122, presently installed in 22-7-5 will be picked up by General Electric at Convair on 5 May 1961 and returned to Rohr on 12 May 1961. Said four (4) engines are to be removed from the sireraft and are to be immediately replaced with four (4) new engines to be provided by Nohr on 4 May 1961.

(3) Costs in connection with this sut morization are to be charged to the above work order with reference to this Sales Order to assist in the identification of work performed.

helibursement in commection with the removal of the engines from the pods and reinstallation therein, where required, will be paid by General Electric, and any additional course incurred in connection with removal and reinstallation of engines from direcast in production will be negotiated by the Material Department with General Electric.

(1) Material Department is requested to advise Contracts Department by memo when the task authorized berunder is complete, at which time Accounting Department will be provided involving instructions by revision to this Sales Order.

7.05 No. 1626

7 Tellamine

Manager of Commercial Contracts

CONVAIR-SAN DIEGO

Revised:

Date:

1 May 1961

Sold to: Convair-San Diego

Convair Division of

General Dynamics Corporation San Diego 12, California

S.O. No:

24 April 1961 880-0-265

W.O. No:

30,000 Series

Reference: (a) MCL 10,503

(b) Mamo from Joe Alkasin to

F. S. Chambers and R. R. Hoover (c) Famme meeting, dated 28 April 1961

INSTALLATION OF CARGO DOOR SNURBERS

- 1. TWA has requested by Reference (a) the installation of a cargo door snubber on each of the two cargo doors in the 880 aircraft. By Reference (b) come, it was agreed to provide airline customers with kits for installation on their airplanes except thet-sambers-will-be incorporated-is-production-on-the-times-Relia-foliow-on alperatte The warren hour another installation shall be proofed on the FAA 880M Aireres (21 7 7)
- 2. Accordingly, all departments concerned are authorized to proceed immediately with the design and proofing of said cargo door smibber. Upon successful testing, kits will be furnished to the 880 and 880M customers at no cost except-that-three-shall be-installed-in-production on-Dakta-follow-on-eiroraft.

Eorde

Log No. 1581 164

/6/ F. S. Charbers F. S. Chambers Manager of Commercial Contracts

Revised to add ber. (c) to throw paras. 182

CONVAIR-SAN DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS CORPORATION

BASIC MINUTES

no. 101

4 May 1961

Reference (a) Sales Order 880-0-265 dated 24 April 1961, Revised 1 May 1961 (b) MCL 10,503

INSTALLATION OF CARGO DOOR SHUBBERS

TWA has requested the installation of a cargo door snubber on each of the two cargo doors in the 880 aircraft. By Reference (a) above, Convair is authorized to provide airline customers with kits for installation on their airplanes. The cargo door snubber installation shall be proofed on the FAA 880M airplane (22-7-3).

Accordingly, all concerned are authorized to proceed immediately with the design and proofing of said cargo door snubber. Upon successful testing, kits will be furnished to the 880 and 880-M customers at no cost.

ACTION: All concerned shall proceed immediately with the design and proofing of carge door snubbers, which shall be done to off-board release. Final release shall be accomplished after successful proofing of the installation.

Project Engineer

FHS: JNC : cas

CONVAIR - SAN DIEGO

Sales Order

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California Date: 24 April 1961

SO Mas 880-0-264

AWO No: 101-4 Acet No: 1103-2

DEMONSTRATION FLIGHT ARAB AIR

- (1) This Sales Order authorizes a demonstration flight for the following Arab Air personnel: Captain H. Tewfic, Assistant Director Production; Mr. Tewfic, Supplies Manager; Mr. Shabab-El-Din, Chief Engineer; and Captain Shams, Chief of Operations. This demonstration flight will be on 26 April 1961.
- (2) Any costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

HBD: hs

Log No: 1582

F. S. Chambers

Managar of Commercial Contracts

0 KJ ly
RCL
4/24/61

CONVAIR - SAY DIEGO

SAL'S ORDER

Sold %a: General Electric Company

Aircraft Gas Turbine Division

Cincinnati 15, Ohio

12 Apr 11 1961 Date:

SO No: 880-0-263

WO No: 30,770

References

(a) Letter, J. B. Moorman, G.E. to P. G. Peninger, Convair, dated 4/5/61

Wire, P. F. Hunt, G.E., to R. Horton,

Convair, dated 4/11/61

(c) Mamo, R.H. Horton to E.I. McDonald, dated 4/12/61

MODEL 990 - SHIPMENT OF GENERAL ELECTRIC CJ805-23 ENGINES

(1) By references (a) and (b) General Electric has requested the return of the below listed delivered GJ805-23 engines to General Electric Company, Evendale, Ohio, for the purpose of incorporating product improvements. All departments concerned are hereby authorized to proceed accordingly.

JELCO engine mumbers:		
175-121	175-169	175=193
1.57	180	194
1.60	182	197
161	184	199
165	185	-7.
166	188	
Convair engine numbers:		
1/75-113	175-114	175-122
130	126	123
137	131	152
150	132	154
15%	135	139
153	138	141
162	164	143
127	1.58	148
133	159	156
144	163	168
155	136	142
124	140	145
125	128	1.46
129	134	

- (2) The aforementioned product improvements are to be made at no cost to Convair or our sustaners. Reimbursement of costs covering the removal I'rom sircraft where required and subsequent installation of engines by Conveir will be negotiated with General Electric.
- (3) Costs in connection with this authorization are to be charged to the above Work Order with reference to this Sales Order in order to assist in the identification of work performed.

FBCamd

Log No: 1,99

F. S. Chambers Manager of Cormercial Contracts

"Revised: 12 April 1 nem bearing (A) Children , Do Driver of General Missertic (b) Telecon, J. Freenan to R. B. Carothers, dated 12 April 1961. PORKO DO - TIPART OF TREETON SINCERIO OFFICE AND DES I be any a to a contribution that Company and Pequested the relation of /// /// The engine desired was // -03-17 and 403-165. and appropriate to the mention with the removal firm the administration and relaxibilities hard will be not by G. T. (Reference (a)). This like from univertees all concerned to proceed with removal of the out one In the state of the shippent to Q. B. and relightletion upon return of the Tends to comment or with this authorization are to be charged to the above but The state of the s AND THE SENS THE PARTY OF SERVICE ther retrieons is a diversal Blackric has agreed to pay Convair \$12,000 pay mills in well and reinstallation of the above engines. RECEIVED APR 1 4 '61 PROJECT SPEC, GROUP 1498 *Revised to add Reference (b) and change F. S. Chambers number of engines from one to two. Hamager of Conservial Contracts

Ravised & Retyped | December 1961

WO No: 30, 000 Series

GENERAL DYNAMICS/CONVAIR

*****Rovised

29 June 1961

passa Revined: ###Revised:

1 May 1961 28 April 1961

SALES ORDER

SeRevised & Retyped 24 April 1961

*Revised: Date:

17 April 1961 30 March 1961

Sold to:

Convair, a Division of General

Dynamics Corporation

San Diego 12, California

SO No:

880-0-261

Reference:

(a) Sales Order 880-3-22 dated 20 May 1960 as revised 21 March 1961

(b) Sales Order 880-3-51 dated 22 March 1961 as revised 23 March 1961, as revised

(c) Meeting In R. C. Loomis Office 14 April 1961

(d) Sales Order 880-26-1

FOUR (4)

CONTINUATION OF FIVE (6) MODEL 22M UNSOLD AIRCRAFT

- The reference (a) sales order authorised continuation of manufacture of (1) seven (7) Model 22M (22-3) aircraft for saie to Hughes Tool Company originally released for Capital Airlines. The agreement related to the sale of these aircraft to Hughes Tool Company has been cancelled. Subsequent to the cancellation of this agreement and as outlined in the reference (b) sales order, two of the seven aircrast (22-00-43 and 22-00-45) have been authorized for delivery to Swissair in accordance with the conditions outlined therein.
- In accordance with the foregoing, this Sales Order cancels and supersedes (2) the reference (a) sales order and authorizes all departments concerned to continue the manufacture of the following unsold Model 22M aircraft (22-3 aircraft). Delivery shall be accomplished as indicated on each aircraft:

22-00-46 September 1961 22-09-47-----September-1961-22-00-37 September 1961 22-00-48 October 1961 22-00-49 October 1961

- (3) The aircraft described above shall continue to be manufactured in accordance with Specification ZD-22-303 dated February 1960 together with the following changes previously authorized under the reference (a) salsa order:
 - Install three Convair furnished galleys including ovens and coffee makers in lieu of three customer furnished galleys. The two forward galleys shall be purchased to the TWA configuration and envelope. The aft galley to be purchased to the American Airlines galley envelope. All three galleys to be configured to accept TWA inserts. The forward fl galley shall incorporate Swissair changes as described in reference (b).

Log No. 130 - 1521 - 621 - 621 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622 - 622

D ge two GENERAL DYNAMICS/GONVAIR

非非非非非 Revised \$\$\$\$\$Revised: 29 June 1961 1 May 1961

幸吃常Revised:

28 April 1961

SALES ORDER

**Revised & Retyped 24 April 1961 17 April 1961

Convair, a Division of General

Revised: Date:

30 March 1961

Dynamics Corporation

******Revised & Retyped 1 December

San Diego 12, California

SO No:

880-0-261

Reference:

Sold tos

See Page One

WO No:

30,000 Series

- Install twenty Convair furnished first class seats and seventy Convair furnished coach seats in lieu of customer furnished.
- Install two coat compartment dividers in lieu of two thin class dividers.
- (d) Delete the preloaded baggage system in the forward cargo compartment including bins, drive mechanism and ball transfers. Cargo floor structure to be revised as necessary as a result of this change.
- (3) Selection of exterior paint and markings shall be withheld until further notification by revision to this sales order. The interior colors and fabrics including galley colors shall remain the same as originally selected by Capital Airlines.
 - Install three bay center section fuel complete. (1)
- (4) Evaluations are presently being conducted with respect to spares support and other pertinent matters necessary to support the potential customer for these aircraft in accordance with the delivery schedule outlined in paragraph (2) above and will be included by revision to this sales order in the near future.
- (5) Deleted
- In addition to the changes cutlined under Paragraph (3) above, this revision (6) authorizes the engineering release, detail parts fabrication, assembly, installation, and hardware requirements related to the Swiss Air peculiar changes on Aircraft 22-00-46/-47/-48 and -49. These model 22M Swiss Air peculiar changes are described in the reference (b) Sales Order 880-3-51 and Sales Order 880-3-53. Actual installation of the aft No. -4 and No. -5 buffet-stowage-units-challe-be-withhold-pending-revision-to-this-Sales-Gyder on-or-before June -b. 196h.
- (7) Procurement of special parts and major equipment related to the Swiss Air peculiar changes shall-be-held-in-absyance-pending-authorization-by-revision to this-Salos -Orders towever, the Material Department chould immediately determine-and-advice-leaf-time-requiromente-for-the subject-material-in-order to export the dollrery exhaulte for these particular aircraft as outlinedunder Raragraph (3) is hereby authorized

Page three GENERAL DYNAMICS/CONVAIR parar Revised ****Revised:

29 June 1961 1 May 1961 28 April 1961

seeRevised: SALES ORDER

**Revised & Ketyped 24 April 1961

*Revised: 17 April 1961

Sold to

Convair, a Division of General

Date:

30 March 1961

Dynamics Corporation

******Revised & Retyped 1 December 1961

San Diego 12, California

SO No:

880-0-261

Reference: See Page One

WO Nos

30,000 Series

- (8) This authorization has no effect on the aircraft configuration previously authorized under this Sales Order for ship No. 22-00-37.
- (9) Long Range Planning shall determine and advise any effect the subject shanges may have on the delivery schedule reflected in Paragraph (2) abor e.
- [[]] 中华 This revision authorizes full installation of the #4 & #5 galley stowage units previously withheld under paragraph (6) above.

*Revised to add ref (c) and para (5) **Revised to delete para (5) and add para. 's (6), (7), (8), and (9)

***Revised amend paras (3)(a) and ref (b)

####Revised to amend para (?)

*** R vised to add para 10 and amend para (6)

samesRevised to add ref (d) & amend

para (2) & para (6)

Manager of Contracts

CONVAIR-SAN DIEGO/A DIVISION OF GENERAL DYNAMICS CORPORATION PROJECT SPEC. GROUP 22-3 MINUTES No. 28 17 April 1961 Model 22-3 #2,3,4 & 5 Rafference: (a) Sales Order 880-0-261, revised 17 April 1961 (b) Project Office Minutes 22-3 #27 revision dated 10 April 1961 Titled - "Swissair Interim Configuration" As evidenced by reference (a), the Engineering Department is directed to increase the effectivity of the engineering authorized by reference (b). This increased effectivity is to include Model 22-3 Ship #4 and \$5 in addition to \$2 and \$3 proviously authorized by reference (b). Exceptions to reference (b) shall be item 10, Swissair exterior markings which are not to be released to aircraft #4 and #5 pending revision of these minutes. In addition, specification revisions to include aircraft #4 and #5 are not authorized at this time. ACTITOM: Engineering is authorised to proceed immediately end change the effectivity of all packages previously released or pending release to accomplish the task defined in reference (b). All CIB Astion Records are to be revised to reflect the new effectivity. Project Engineer

HT.C. CONVAIR-SAW DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS CORPORATION No. 100 Model 22-3

RECEIVED

ADD 17'61

PROJECT

SPEC. GROUF

22-3 MINUTES

12 April 1961

Reference (a) Sales Order #880-0-261 dated 30 March 1961

(b) CFO #61-140 dated 11 April 1961

(c) AVO Chief Engineer dated 13 April 1961

CONTINUATION OF FIVE MODEL 22M UNSOLD AIRCRAFT

As evidenced by Reference (a), the Engineering Department is directed to continue the task to complete the subject aircraft. The Manufacturing Department is to be supported by the release of Engineering information to accomplish the following:

- a) Install three Convair furnished galleys in lieu of three customer furnished galleys. The two forward galleys shall be purchased to the TMA configuration and envelope. The aft galley to be purchased to the American Airlines galley envelope. All three galleys to be configured to accept TWA incerts.
- b) Install twenty Convair furnished first class seats and seventy Convair furnished coach seats in lieu of customer furnished.
- c) Install two coat compartment dividers in lieu of two thin class dividers.
- d) Delete the preloaded baggage system in the forward cargo compartment including bins, drive mechanism and ball transfers. Cargo floor structure to be revised as necessary as a result of this change.
- e) Selection of exterior paint and markings shall be withheld until further notification by revision to reference (a). The interior colors and fabrics including galley colors shall remain the same as originally selected by Capital Airlines.
- f) Install three bay center section fuel complete.

It is noted that items c) and d) have been previously authorized, thus are not to be considered part of the remaining task.

ACTION: Engineering is authorized by reference (c) to proceed immediately with the task described in reference (b). EWO's are to be submitted to Cost and Schedules and shall be in agreement with the task estimated cost and schedules of reference (b).

Project Engineer

CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair, A Division of

General Dynamics Corporation San Diego 12, California Date:

29 March 1961

S.O. No:

889-0-260

W.O. No:

30,000 Series

NEW REGISTRATION NUMBER FOR CONVAIR 880 SERIAL NO. 1

(1) This Sales Order authorizes all departments concerned to remove Registration No. N-801TW from Model 22 Aircraft Serial No. 1 and apply in lieu thereof Registration No. N-8489H.

ELM:b

Log No: 1391

F. S. Chambers

Manager of Commercial Contracts

Sold to:

Convair, A Division of General

Dynamics Corporation

San Diego 12, California

Ruference:

(a) R. C. Loomis Authorization

28 March 1961

(b) TWA Letter 880-1645 dated

20 March 1961

(c) Convair Letter - Loomis/Rourke -

dated 16 March 1961.

(d) MCL No. 10,559 revised 2 March 1961

SALES ORDER

Date:

29 March 1961

8.0. No: 880-0-259

W.O. No: 30,000 Saries

MAXIMUM LANDING WEIGHT - INCREASE

TO 137,000 POUNDS

- By Reference (b), TWA has accepted our proposal, Reference (c), to increase maximum landing weight from 132,800 pounds to 137,000 pounds.
- Purusant to Reference (a), this Sales Order authorizes all concerned to 2. proceed with change as set forth in MCL 10,559 to be effective on all 22-1 and 22-2 airplanes.
- There are no costs to the customers in connection with this Sales Order. 30

Log No. 1375

S. Chembers

Manager of Commercial Contracts

A. Mathews CONVAIR-SAN DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS CORPORATION BASIC MINUTES No. 99 3 April 1961 Models 22-1 & 22-2 Reference (a) Sales Order 880-0-259 dated 29 March 1961 (b) R. C. Locais Authorization 28 March 1961 (c) MCL 10,559 revised 2 March 1961 PROJECT 61 MAXIMUM LANDING WEIGHT - INCREASE TO 137,000 POUNDS SPEC As evidenced by Reference (a), TWA and Delta have accepted our proposal, Reference (c), to increase maximum landing weight from 132,800 pounds to 137,000 pounds. Pursuant to Reference (b), these minutes authorize all concerned to proceed with change as set forth in MCL 10,559 to be effective on all 22-1 and 22-2 airplanes. 1. Perform required stress analysis. 2. Revise documents on landing gear and brakes. 3. Revise flight manual. 4. Flight testing will not be required. All concerned shall proceed as noted above. Engineering ACTION: Specification Section will forward necessary revised specification pages to the Commercial Contracts Department as soon as practicable. H. Sharp Project Engineer CBB

sold to: CONVAIR, A Division of

General Dynamics Corporation

San Diego 12, California

Reference: (a) Memo from Ned Root to R. R. Montes

dated 1 March 1961

Date:

27 Merch 1961

S.O. No: 880-0-258

600-0-19

W.O. No: 30,000 Series

31,000 Series

CONVAIR 880 AND CORVAIR 990 NAMEPLATE-TRADEMARKS

- (1) The General Office Patent Deposition and advised that the nameplate-tradepark, adjacent to the door to the floor to the formair 880's and Convair 990's. must be redesigned to conform the present copyright. In addition, a new name-plate-trademark is required for the second of the present copyright. In addition, a new namethe Convair 990 instead of the Convair 500. The engineering drawing number in the cast of the Model 22 is 22
- (2) The new artwork for both the Move and Model 30 nameplate-trademarks has been created, approved by the Pat Department and is currently in the hands of Mr. C. E. Dietz of the furnishing group.
- (3) This Sales Order authorizes affected departments to proceed with the release, fabrication, and installation of nameplates bearing the new trademark on all Models 22, 22%, and 30 airplanes with the earliest practical effectivity.

हास: देश

Log No. 1336

FOR F. S. Chambers

Managar of Commercial Contracts

CONVAIR-SAN DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS COMPORATION

BASIC MINUTES

Mos. 98 and 15

28 March 1961

Models 22 and 30

Reference (a) Sales Orders 880-0-258 and 600-0-19 dated 27 March 1961

CONVAIR 880 AND CONVAIR 990 NAMEFIATE-TRADESARKS

The General Office Patent Department has advised that the nameplate-trademark, adjacent to the door to the flight deck in the Convair 880's and Convair 990's must be redesigned to conform with present copyright. In addition, a new nameplate-trademark is required for the Nodel 30 because it has been redesignated the Convair 990 instead of the Convair 600. The engineering drawing number in the cast of the Model 22 is 22-92244:

The new artwork for both the Model 22 and Model 30 nameplate-trademarks has been created, approved by the Patent Department and is currently in the hands of Mr. C. E. Dietz of the furnishings group.

ACTION:

These minutes authorise affected departments to proceed with the release of nameplates bearing the new tradework on all Models 22, 22M and 30 airplanes with the earliest practical effectivity.

helle

tro lect Euginse)

Engineer

CAS

7 4 940

SALES ORDER

Revised | May 1961 Date: 10 Mar on 1705

Convert a Distance of General Dame onted Corporation

San Diego 12. California

(a) Mesting to R C. Loomis Diffice 9 March 1961

WC No:

SO Plo

30,000 Serne:

380-1-157

Non Order 880-22-48 dated | March 1961

(c) Sales Order 880-22-62 dated 28 April 1961

MEXICEPIAL AUTHORIZATION FOR PROCUREMENT OF

HOREL IZM LONG LEADTIME ITEMS

In the same with the reference (a) moseting, this Sales Order suther 12 as the description to percoad immediately with the procurement of ten (10) the sale of the following material representing hong leadtime trops

- Mary press largings from Cheveland Pacumatic.
- be the landing just atcoring cylinders from Claveland Pacamatic
- can be and heagar accomply forginge for pool and pylon from Robr.
- 1: 2 the intent of this precurement authorization for the above lietyd its made to respect delivery achedule on the impadditional JAL elizable additional JAL elizable additional JAL elizable and additional section of the impadditional sections of the impaddition of the impadd the possible relicate of eight (8) Model 22M speculative arreraft,
- This authorization shall be reviewed in this properties the date of transport to detail the the could for the subject material at that time. The total tembered same alle than than thittes covering this 30 day period whall be fundted to \$75, 000.
- This control ation shall in no way affect the previous instructions outlined in the reference (b) sales order related to procurement of JAL pocular items.
- (5) Two ship sets of the above listed long leadtime items are hereby allocated to the two JAL 22M Aircraft released under the reference (c) sales order.

12 x 12 1 1 1 1 1 1 1

1631

*Revised to add ref (c), amend para (1), (2)(3) Property of Commercial Contracts

COMVAIR - Sam Diego

SALES ORDER

Sold to: Convile

A Division of General Dynamics

San Triego

"Ravised: 18 April 1961 Date: 9 March 1961

> SO No: 880-0-256 SO No: 600-0-18

WO No: 880M - 30561 WO No: 990 - 31601

AFRIAL PHOTOGRAPHS

(1) This Sales Order authorizes serial photographs of each of the following siremaft:

880M

Aveces #1 Alacks AACL JAL #1 FAA 990

Converse #1

#2 (No markings)

AAL #4

Swissaur #1

BAB #1. FRAL #1

(2) Which photo mission will fly extensions of production shahedown and/or customer acceptance flights and must not consume more than 45 minutes for each sireraft.

(3) Budgets Department is requested to issue budget in the encunt of \$17,000 covering this activity.

14/5/

Log No: -1402 1538

Chavissi to change Fars. (2).

P. S. Cambers

Manager of Commercial Contracts

Win

880-0 No. 102

CONVAIR-SAN DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS CORPORATION

BASIC MINUTES

600-0 No. 17

29 May 1961

Reference (a) Sales Order 880-0-256 and 600-0-18 dated 9 March 1961 Revised 18 April 1961

(b) AVO Chief Engineer dated 23 May 1961

(c) CPO 61-183 dated 15 May 1961

AERIAL PHOTOGRAPHS

These minutes authorize serial photographs of each of the following aircraft:

880M

990

Avensa #1

Convair #1

Aleska

#2 (No markings)

AACL

AAL #4

JAL #1

Swissair #1RECEIVED

FAA

SAS #1

MAY 31'61

REAL #1

PROJECT SPEC.

Each photo mission will include experimental flights and extensions of production shakedown and/or customer acceptance flights and must not consume more than 45 minutes for each aircraft.

ACTION:

It is requested that EWO's be submitted to Planning and Estimating and to be in accordance with Reference (c).

> T. Ready, Project Engineer

Savard lect Engineer CONVAIR - Sen Diego

Sold to: Convair
A Division of General Dynamics
San Diego 12, California

Reference: (a) Request of R. C. Loomis,
1 March 1961

WO No: 30,000 Series
WO No: 31,000 Series

FLIGHT TEST AIRCRAFT - ASSIGNMENT OF EXTERIOR MARKINGS

(1) For purposes of clarification, listed below are exterior markings schemes as assigned to the Model 22M and 30 flight test aircraft:

Basic Version No.	Type of Markings	Authorization	Customer
22-00-1	General Dynamics decorative	8.0. 880-0-11	5 Convair
22-00-44	All white Corrosion protection	s.o. 880-3-30	Conveir AACL
22-07-2	Alaska markings		Alasks
30-10-1	General Dynamics decorative scheme		AAL
30-10-2	White top and gray bottom	8.0. 600-0-10	
30-10-3	No markings (proof load)		AAL
30-10-4	American Airlines markings	8.0. 600-5-19	
30-10-5	Swissair markings	8.0. 600-0-1	
30-10-6	General Dynamics decorative scheme		SWR

Customer color schemes will be incorporated after completion of assignment to the flight test program.

REC: bs

Log No: 1095

F. S. Chambers

Managar of Commercial Contracts

Sold to:

Convair, a Division of General

Date:

22 February 1961

Dynamics Corporation

San Diego 12, California

SO No:

880-0-254

Reference:

(a) Memo, C.G. Wolcat to

WO No:

30, 000 Series

D. H. Digges, dated 2/22/61

Acct. No:

1103-2

AUTHORIZATION FOR PACKING AND SHIPPING OF TWO

TRIPLE TECO TOURIST SEATS

- (1) In accordance with reference (a), this Sales Order authorizes the Material Department to proceed immediately with the packaging and shipping of two triple TECO coach seats.
- (2) The triple seats shall be packaged in two separate cartons and shipped via United Airlines to Seattle February 23, 1961, Said cartons shall be addressed as follows:

"United Air Lines
Seattle, Washington
Hold for pickup by Trans-Caribbean Airways"

RLW:dh

Leg No. 887

0,99-

D. H. Digges Manager of Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California Date: 21 February 1961

SO No: 880-0-253

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT CMA -- AERCHAVES

- (1) This Sales Order authorizes a dent stration flight in aircraft No. 30 for items. Vargas, CMA; Ruelast, Ministry of Communications; Carrasco, Aeronaves; Espenosa, CMA; Marquecho, Aeronaves; and Pina, CMA. This demonstration flight will be conducted on 21 February 1961.
- (2) Any costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

Log No.

D. H. Digges Manager of Contracts

ASC HBD:hs

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California Date: 13 February 1961

80 No: 880-0-252

AWO No: 141-4 Acet No: 1103-2

DEMONSTRATION FLIGHT VIASA

- (1) This Sales Order authorizes a demonstration flight, on a non-interference basis, for Dr. Machado, President, VIASA; and Mr. Pena, Vice President, Avensa. This demonstration flight will be on 33 February 1961.
- (2) Any costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

IMA

HBD: hs

Log No. 721

3.777

D. H. Digges Manager of Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date:

6 February 1961

SO No:

880-0-250

AWO No: 141-4 Acct. No: 1103-2

DEMONSTRATION FLIGHT LOS ANGELES DODGERS

- (1) Subject to availability of a suitable airplane and without creating any customer delay, this Sales Order authorizes a demonstration flight for Captain Harry Holman, Chief Pilot, Los Angeles Dodgers, on or about 15 February 1961.
- (2) All costs incurred in connection with this demonstration flight is to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. R. C. Loomis as of 6 February 1961.

fol Wib

Log No: 720

D. H. Digges Manager of Contracts pcf.

SALES ORDER

Date:

Sold to:

General Electric Company

Aircraft Division

*Ravised:

17 January 1961 19 January 1961

Cincinnati, Ohio

** Revised:

1 February 1961 9 February 1961

References

###Revised & Rewritten: (a) Meeting of Instruction - Loomis -

17 January 1961

S.O. No:

880-0-249

W.O. No:

30,000 Series

ENGINE UPDATE 22-1 AIRCRAFT

(35, 40, 42, 15, 6, 19, 39, 13, 9, 3, 18)

- (1) All departments are authorized to immediately implement the removal and updating of subject engines.
- These engines are to be removed and sent to the G. E. facility at Ontario, Calif. using the firm delivery schedule as an availability guide.
- (3) Engines removed from A/C #35 and #39 must be delivered to G. E. by 1-23-61 to uphold current scheduling.
- (4) The updating of these engines will include the following:
 - (a) Third stage bucket inspection,
 - (b) No 1 nozzle inspection.
 - (c) No. 3 scavenge pump modification.
 - (d) Sound suppressor expansion.
 - (e) Oil tank inspection.
- (5) At the time engines are removed from the aircraft and prior to shipment to the G.E. facility, all known Rohr Retrofit Items are to be removed and sent to the Rohr Crib, Bldg 3, Plt. 1. Material Department will expedite said turnsround parts in order to have updated parts on hand at the time upgraded engines are received from General Electric.
- (6) It is understood that G.E. is to reimburse Convair at the rate of \$125,00 per engine for each engine in Aircraft Production Nos. 35, 40, 15, 19, 39, 18, -26;-6-30removed. Accounting will accomplish necessary invoicing to G. E.
- (7) The engines from Aircraft Menufacturing Sequence No. 13 will be installed in Alreraft Monafacturing Sequence No. 34.

SALES ORDER

Sold to:

General Electric Company

Aircraft Division Cincinnati, Ohio

Date:

17 January 1961

*Revised:

19 January 1961

**Revised:

1 February 1961

***Revised & Rewrittens

9 February 1961

S.O. No: 880-0-249

Page 2 of 2

W.O. No: 30,000 Series

(8) FOR ACCOUNTING DEPARTMENT ONLY - Engines removed from 6, 13, 9, 3, 26, & 30 will not be for the account of General Electric.

Log No. 329 352 564 742

9 32

D. H. Digges Menager of Contracts

*Revised to delete A/C Nos. 26 and 30 from Sales Order and change Para. (3) - 1-19-61. **Revised to add Para. (7), change Sales Order Number, and change Aircraft affected. Revised and Rewritten to delete A/C Nos. 26 and 30 from Para. (6), and to add Para. (8) and to change Para. (7). - 2/9/61.

Sold to:

COMVAIR, A Division of

General Dynamics Corporation

San Diego 12, California

Reference

(a) Instructions of R. C. Locais

Date:

31 January 1961

5.0. No: 880-0-248

W.O. No: 30,630

MODIFICATION OF PROCEDURES TRAINER

- (1) The Model 22M Procedures Trainer, which was received in the Capital Airlines configuration, has been modified to the JAL configuration for training purposes. This Sales Order confirms authorization for said modification.
- (2) All concerned are hereby advised that further modification to the Model 22M Procedures Trainer or to the Model 30 Procedures Trainer, when it is received on approximately 15 February 1961, is not to be accomplished without specific Sales Order authorization.

for D. H. Digges Manager of Contracts

ONVAIR-SD

Sold to:

SALES ORDER

*Revised 20 February 1961
*Revised 6 February 1961

Convair, a Division of General Dynamics

Date:

23 January 1961

Corporation

San Diego 12, California

SO No:

880-0-247

Reference: (a) Verbal direction to T. J. Sullivan from

WO No:

30,000 Series

R. C. Loomis, 20 January 1961

(b) Meeting, R. C. Loomis, B. J. Simons and R. L. Wintringer, 17 February 1961

MODEL 22M BASIC SALES SPECIFICATION

- (1) In accordance with reference (a) this Sales Order authorizes the immediate preparation and issuance of a Model 22M basic sales specification.
- (2) This specification shall be identical in configuration to the Avensa Specification ZD-22-321 dated 15 April 1960 plus all authorized changes as of January 20, 1961.
- (3) Engineering and Division Estimating shall prepare an estimate of the costs associated with the preparation, publication and issuance of said Specification, plus an initial run of one hundred copies. This estimate will be submitted to the Division Manager for his review and approval not later than January 27, 1961.
- (4) This revision authorizes Engineering an additional 800 hours to cover the task necessary in revising the Model 22M Performance Report No. ZA-22M-001 in accordance with the latest data received from General Electric on the CJ-805-3b engine performance. The abrementioned performance report, as revised, shall be referenced in the Model 22M basic Sales Specification.
- (5) In accordance with authorization received during the reference (b) meeting, the following changes to the Specification described in paragraph (2) above shall be incorporated in the Model 22M Sales Specification ZD-22-325 dated 1 February 1961.
 - (a) Passenger seating arrangement to include 12 place lounge, 24 first class seats and 59 tourist seats in lieu of Avensa's configuration of 12 place lounge, 44 first class and 34 tourist seats.
 - (b) Three buffets to be identical to Avensa, however, they shall be listed under Appendix I-A as customer furnished-Convair installed in lieu of Convair furnished-Convair installed.
 - (c) A customer furnished "Convair installed flight data recorder shall be listed under Appendix I-A in lieu of provisions only.

CONVAIR SD

SALES OD SALES ORDER

*Revised 20 February 196 Revised 6 February 196

Sold to:

Convair, a Division of General Dynamics Date:

23 January 1961

Corporation

Sam Diego 12, California

SO No:

880-0-247

Reference:

See page one

WO No:

30,000 Series

MODEL 22M BASIC SALES SPECIFICATION

- A single customer furnished Convair installed ATC Transponder shall be listed under Appendix I-A in lieu of provisions only for a dual system.

 Provisions for a second system shall be retained.
 - (e) All passenger seats to be Convair basic configuration and will not include the Avensa stewardess step on the triple coach seat.
 - (f) Passenger signs to be monolingual in lies of bilingual English/Spanish.
 - (g) The 22M Sales Specification will reflect an increased ramp weight of 193, 500 lbs in lieu of 191, 500 lbs and a takeoff weight of 192, 700 lbs in lieu of 191, 000 lbs.
 - (h) Specification ZD-22-325 shall list Weber as the manufacturer of pilot seats.
 - (i) The 22M Sales Specification shall reflect the potential 22M customers standard choices of interior colors and fabrics as well as exterior paint scheme. This reflection shall be indicated by referencing the interior trim and color specification.

TJS af

Log No: 446 654 820

/s/ T.J. Sullivan
Assistant Division Manager

Initialed by D. H. Digges, C. L. Meador

A Ultration of General Cynamics Corporation BASIC 22M MINUTES 2 February 1961 Model 12 21 at Bovisud 14 February 1961 Revised 1 March 1 Reference (a) S. O. 880-0-247 dated 23 January 1961 Revised 6 February 1961 Period MODEL 22M BASIC SALES SPECIFICATION In accordance with Reference (a) Sales Order, these minutes authorize the immediate preparation and issuance of a Model 22M Baste Sales Specification. This specification shall be identical in configuration to the Avense Specification ZD-22-32 dated 15 April 1960, plus all authorized changes as of january 20, 1961, plus changes outlined in the revised Sales Order, reference a as shown on page 2. Engineering shall prepare an estimate of the costs and shall proceed with the preparation. publication and issuance of said Specification, including an initial run of one hundred copies. ACTION: Engineering shall proceed as noted above. The Chief Engineer has authorized go-shead prior to receipt of hudget. JTR/IMC/db KEVISION: Engineering shall proceed as necessary to ravisa too Model 22M Performance Report No. ZA-22M-00% in accordance with the latest data received from General Electric on the CJ-305-31 angine performance. The aforementioned performance report, as revised, shall be referenced in the Moisl 22M Basic Sales Specification.

To associance with the review! Gales Trder, the following changes to the Specifican and described to page 1 whole he incorporated in the Model 200 Sales Specification and 200-205 detect 1 February 1961.

- (a) Sussenger benting arrangement to include 15 place lounge, 24 first class section of 59 tourist seats in lieu of Avensa's configuration of 12 place lounge, by first class and 34 tennist seats.
- (b) Three buffets to be identical to Avense, however, they shall be listed under Appendix T.A as customer furnished-Conveir installed in lieu of Cenvair furnished-Conveir installed.
- (c) A customer furmished-Conveir installed flight data recorder shall be listed under Appendix I-A in lieu of provisions only.
- (d) A single custemer furnished-Conveir installed AIC Transponder shall be listed under Appendix I-A in lieu of previsions only for a dual system. Provisions for a second system shall be retained.
- (e) All passuager setts to be Convair basic configuration and will not facture the Avenue statutes step on the triple coach seat.
- (f) Persenger signs to be monolingual in lieu of bilingual Baglish/Speriah.
- (a) The 201 Seles Specification will reflect an increased ramp weight of 193,500 lts. in lieu of 191,500 lbs. and a takeoff weight of 192,700 lbs. in lieu of 191,000 lbs.
- (11) Specification ZD-22-325 shall list Weber as the manufacturer of pilot seats.
- the 220 Sales Specification shall reflect the potential 220 customers standard choices of interior colors and fabrics as well as exterior paint scheme. This reflection shall be indicated by referencing the interior tria and color specification.
- () Fem Air Temperature indication compon to the Avenua configuration is to be improposed in the basic Sales Specification.

SALES ORDER

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date:

17 January 1961

SO No:

880-0-245

AWO No: 141-4 Acet. No:1103-2

DEMONSTRATION FLIGHT USAF

- (1) This Sales Order authorizes a demonstration flight, on a non-interference basis, for Colonel Carl Chapman, Director of Procurement and Production, USAF Headquarters. This demonstration flight will be on or about 20 January 1961.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 17 January 1961.

HAD: by

Lcg No. 415

Drd: 1900

D. H. Digges Manager of Contracts

CONVAIR - SD

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California

SALES ORDER

Date: 3 February 1961

SO No: 880-0-244

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT VISITING IAS PERSONNEL

- (1) This Sales Order records the approval of a demonstration flight conducted for the following visiting IAS personnel: Ralph Wassell, Joseph Howell, Ross C. Will J. T. Cosby, John S. McCollom, John T. Hayward, Roy T. Selt, L. Blackburn, E. F. Latever, R. Locmis, Dick Johnson, James Hartinger, Paul R. Pitt, Horace A. Stevenson, Jr., I. J. Kleete, Bill M. Callaway, and W. R. Lee, on or about 2 August 1960.
- (2) All cost incurred in connection with this demonstration flight is to be charged to the account number referred to above.
- (3) This demonstration flight was approved by Mr. A. C. Esenwein on 1 August 1960, and was accomplished on 2 August 1960.

ASC INFRA

Log No: 578

Drd: 71-

D. H. Digges Manager of Contracts

Federal Avintimo game, We obtangened the tree

Millerised: 9 January 1963 *Revised: 14 December 1981

(a) FAA Contract on 300, Order by 0 Forty ! dated b signo 1960

WO Not 30, Wat

b) Sales Con r Nos, 880-0-165 and 880 0-218

(c) FAA TWX dated 14 December 1961

THORIZATION TO TRAIN FEA POLOT AND FLT. ENGINEER PERSON

- intence (4) to the met which has been excessed by the Federal Assessed concernate the rate and arrest the training of FAr personnel as release

	Flight training in a police FAA pillet personner	Eathmated single
	at the CV-850 // /////////////////////////////////	60
	Co kpu procedure trainer those for nine FAA	
	philad and light s givens paramed	90
2.1	Crossed sastruction training for eight FAA piles	
	and thighe capitals periodical	. 20

The select com ale and superseden selectordes man. 880 0 165 and - 11 It rests proviously accumulated under work order so 30625 thould be to I red to there order 30423 Prior to the insumer of this cales order. reference (b) sales orders suffered a bortion of the ground action the beto thing out lined in (a) through (a) above. At the present time, training of to completed for tem FAA pillet personnel. 5? bours of cockpit pro-. duire trainer three and the ground achool per tem (e).

the present the specific streams that will be used for the training of the swort AA pilote has not been determined. Contracts Department will solvine Productions Elight Dept as coun as the aircraft number has been determined to that it become nor expery to conduct the training flights over a weekend, overfine is anthurized for the flught and field operations departments

beam rempletion of the training of two additional FAA pilot personnel and the talance of the cockpit procedures trainer sime, the Controllers Dept. will arepare an imprice referencing Contract No. FAA-804, Order No. 0-3689 and forested the original and seven copies to S. J. Harris. Mail Zone 11-00 lut ramsephilah to the customer.

(Continued on Pers 1 m)

handed to add for (a); change Para. (1), Wanager of Contracts

vised to add Para. (5).

Sold to: Federal Aviation Agency

Washington, D. C.

(See Page One) Reference:

- - SALES ORDER (Fags TVO) WRevised:

14 December 1961. DRIEE

CONSERVABLE: 9 JERREY 1963

50 No: 850-0-242

WO No: 30.623

(4) FAA reference teletype message authorizes General Dynamics/Convair to typerate FAA pilot personnel on (N-990 aircraft and to charge costs to FAA Contract No. FA-804. Said training is to be conducted on CV-990 (30-10-5) and will commence on 18 December 1961. Four (4) FAA flight inspectors (pilots), two (2) FAA flight instructors and two (2) FAA flight engineers will arrive 18 December 1961 for the training program. The flight inspectors and flight instructors are to receive formal pilot training not to exceed a total time of thirty-seven (37) hours and tan (10) minutes which is the balance of flight time authorized by Reference (a) contract. Cockpit procedures time will be accomplished on on "as available" basis. The FAA flight engineers will accompany pilot training flights as chearvers only and will not receive formal training.

60(5) COMMOLLERS DEFAREMENT - This sales order considered closed, so further charges contemplated and remaining balance authorized under Reference (a) will not be used.

3 4 50	General Dynamics Corporation	Date:	22 Tannary 1061
eletvace i	(a) Division Hannger direction to D H. Digges 9 January 1961 (b) Puruhase Agreement, Rughes	8. O. #	880-0-239
	(d) Meeting in R. C. Loomis' Office 1/20/61	W. C. #	30,000 Series

RE-ALIGNMENT OF MODEL 22M PLICHT TEST PROGRAM PLICHE TEST TASK ASSIGNMENTS

The direction received by Reference (a) and in accordance with tions of Article 13 of Reference (b), all Departments concerned are the charited the use of 23M Aircraft Bo. 22-3-1 (Production Bo (0-37)) and the case of Production Aircraft 22-3-1 (Production No. 30-37) are inspected and executed on a minimum cost basis. Existing instrumentation and case of the extent practicable.

- (a) Minimument No. 37 shall be instrumented and ballasted pursuant to the orquirements of the Plight Test Outline established by the Engineering Plight Test Department
- Design, procurement or fabrication and installation of additional respective materials are hereby authorized to the support of this effort.
- (c) Division Manager approval of any capital procurement will be required on an individual basis
- The Manufacturing Department will complete the aircraft with the expectation of the inetallation of the lounge, passenger seats, buffete, and carretter
- (c) levices secessary to insure the protection of the aircraft interior will be labricated and installed as appropriate.
- (f) A set of interim inboard flaps must be manufactured for this aircraft in midition to the set already authorized for Ehip SOLTW.
- The sesignment of sircraft and the program for each is as follows:

GANVAIR - San Diego Sold to: Convair

SALES ORDER Revised and retyped 1-23-61

Date:

1-10-61 880-0-239

Page 2

S.O.# ₩.O.#

30,000 Series

22-1-1 (This airplane is owned by Convair and assignment is at the discretion of the Division Manager) - To perform flutter testing, rudder evaluation, performance testing and Bendix Autopilot tests. Airplane flight test task assignment to be completed 31 July 1961.

- 22-3-1 (This aircraft assigned in accordance with Article 13 of Reference (b). To perform stall characteristics and stability for control testing. Aircraft flight test task assignment to be completed 7 July 1961.
- 22-4-1 (This aircraft assigned in accordance with Article 13 of Reference (c). To perform Sporry-Autopilet tests on center section fuel, communications and navigation.

Aircraft flight test task assignment to be completed 22 May 1961, refurbished and tendered for delivery by 5 June 1961.

- 22-21-4 This unsold aircraft to perform Sperry Autopilot tests only. Airplane flight test task assignment to be completed 11 July 1961.
- 3. The Controller will develop and publish to Departments concerned, a budget for the Model 22M Flight Test Program by Fetmusey 3, 1961.
- 4. There will be no changes to the basis program described herein except by amendment to this Sales Order.
- 5. Upon completion of the Flight Test Program, the aircraft shall be rehabilitated to a warrantable configuration described in the contract as 'not materially worn." The procedure and schedule for rehabilitation will follow Manufacturing Manual A-11 dated 7-13-60.
- 6. The programmed dates for certification of the 22M aircraft are as follows:

Provisional Certification - June 5, 1961

Final Certification - July 15, 1961 - the

August 15, 1961 - All other 22M mircraft

7- - The detail Plight Test schedule is published in Sales Order 880 0-243.

Approved: /s/ T.J. Sullivan

/s/ R.C. Loomis

Rev. to add Ref. (d) & Amend. Paras. (2) & (6) and celete Para. (7).

/s/ D H. Digges Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (Sen Diego)

26 January 1961

No. 25 No. 96

BASIC MINUTES

Model 22-3

Reference: (a) S. O. 880-0-239, Rev. 23 January 1961

(b) Purchase Agreement, Hughes Tool Company, dated 3 May 1960

(c) Aurehase Agreement, AACL, dated 14 May 1959

(d) CFO 61-3 dated 17 January 1961 (e) CFO 61-36 dated 26 January 1961

RE-ALIGNEST OF MODEL 22M FLIGHT TEST PROGRAM PLIGHT TEST TASK ASSIGNMENTS

- 1. Fursuant to the direction received by Reference (a) Sales Order all Departments concerned are hereby authorized the use of 22M Aircraft No. 22-3-1 (Production No. 00-37) and 22-21-4 in the basic 22M Flight Test Program. The routine basic Model 22M Flight Test Program involving the use of those aircraft shall be planned and executed on a winimm cost basis. Bristing instrumentation shall be used or modified to the extent practicable.
 - (a) Aircraft No. 37 shall be instrumented and ballasted pursuant to the requirements of the Flight Test Outline established by the Engineering Flight Test Department.
 - (b) Design, procurement or fabrication and installation of additional essential instrumentation and supporting materials are hereby authorized in the support of this effort.
 - (c) Division Manager approval of any capital procurement will be required on an individual basis.
 - (d) The Manufecturing Department will complete Ship 00-37 with the exception of the installation of the lounge, passenger seats, buffets, and carpeting.
 - (e) Devices necessary to insure the protection of eigereft interiors will be fabricated and installed as appropriate.
 - (f) A set of interim inboard flaps must be manufactured for Ship 00-37 in addition to the set already authorized for Ship 801TH
- 2. The assignment of eigeraft and the program for each is as follows:
 - 22-1-1 (This airplane is owned by Convair and assignment is at the discretion of the Division Manager) - To perform flutter testing, rudder evaluation, performance testing and Bendix Autopilot tests. Airplane flight test task assignment to be completed 31 July 1961.

No. 25 No. 96 Nodel 22-3

Page 2

- 22-3-1 (This circraft assigned in accordance with Article 13 of Reference (b).
 To perform stall characteristics, stability and control testing.
 Aircraft flight test task assignment to be completed 7 July 1961.
 - 22-4-1 (This aircraft assigned in accordance with Article 13 of Reference (c).
 To perform center section fuel, communications and navigation, system
 testing. Aircraft flight test task assignment to be completed 22 May
 1961, refurbished and tendered for delivery by 5 June 1961.
 - 22-21-4 This unsold aircraft to perform Sperry Autopilot tests only. Airplane flight test task assignment to be completed 11 July 1961.
- 3. There will be no change to the basic program described herein except by exendment to Reference (a) and these Minutes.
- 4. Upon completion of the Flight Test Program, the aircraft shall be rehabilitated to a varrantable configuration described in the contract as "not materially worn." The procedure and schedule for rehabilitation will follow Manufacturing Manual A-11 dated 7-13-60.
- 5. The programmed dates for certification of the 22M aircraft are as follows:

Provisional Cartification - June 5, 1961

Final Certification - August 15, 1961 - All 22M Aircraft

ACTION: All affected engineering groups are authorised by AVO from the Chief Engineer to proceed with the task as described in Reference (d) and (e).

Project Engineer

JTR/MLC/dib

SALES CHAR

Revised:

18 Jamary 1961

Leron:

10 January 1341

80 30:

880 × /242

(a) Meeting J. Freeman/C.J.Dritton

9 Jacobsky 1961

Cincimmed 15, Chio

(b) Sales Order 880-1-361 ata 17 Jan. 1961

Links to be barbine Hivision

WO WO! 307/

CONVAIR 880 - FAGINE REMORK E/N's 161-269; and 161-269;

The secret to the agend to reinhurse Convir in the secent of \$125.

the cases order authorizes all concerned to proceed accordingly. 6.8. Will the castage and running the engines to Correir for repair of lith stage and running the engines to Correir for reinstallation. The face and to be recarded by 6.8. in the same condition as received from the opening of accordingly at the castage.

The movement of the form of the rework.

The action Lation relative to acted are to coordinate work under

(5) Fursuant to Reference (b), this sales order is cancelled since it is a displication of the task ordlined in Reference (b).

430

Revised to add Ref. (b), Para. (5) and

to carcel.

TO H. Digges Manager of Costructs

SALES ORDER

9 January 1961

Sold to: General Electric Company

Aircraft Gas Burbine Division

Cincinnati 15, Ohio

80 No: 880-0-240

Reference: (a) Telephone request J. Preeman

to C. J. Dutton 9 Jan. 1961

WO No: 30770

Date:

CONVAIR 880 REWORK OF ENGINE S/N 161-117

- (1) General Electric Co. has agreed to reinburse Conveir in the amount of \$125. for dropping and reinstalling subject engine in aircraft production S/N 22-00-2.
- (2) This sales order authorizes all concerned to proceed accordingly. G.E. will rework the engine at Convair, said work to consist of replacement of first stage leading edge bucket.
- (3) In accordance with Reference (a), negotiations have been completed for G.E. to accomplish this rework; the engine is to be returned by G.E. in the same condition as received with reference to the QEC items and accessories attached.

CJD:mh

Log No. 277

D. H. Digges

Managar of Contracts

Da te

Sold by

Federal Aviation Agency Washington, D. C.

CANCELED 1/10/61

5

6 Dacambar 1060

Retarens

(a) Telegon Agraement, D. H. Diggas and R. Lane of Northment Airlines, 6 December 1960 (b) R.C.Loomis/T.J.Sullivan

Telephone Approval, 6 recember 1960

(c) PAA (untract PA 804 (0-3689-1)

8. 0. # 680-0-23

W. Q. # 30625

AUTHORIZATION TO FRAIN TWO PAA PLICHT INSPECTORS IN 850 AIRCRAFT NO. 12

and accordance with the authorities in References (a), (b) and (c), you are bereby subject to carry out the following training for subject personnels

- and related ground training
- (b) A maximum of fifteen bours per man (or what wer portion thereof is required to type rate chese pilots) is authorized for Flight Training utilizing 860 Aircraft Bo. 12.
- dread training is to begin on Wednesday, December 7, 1860 and Flight Training is to begin on Friday, December 9, 1960. The Flight Training program, subject to the availability of Ship No. 12 for this purpose, should occur to Friday, Saturday, Sat

. R No. ==== 286

*Canceled 1/10/61 see sales order 880-0-242 750199-

D H. D.gges Manager of Contracts CCHVAIR - Sen Diego

SALES OFFER

Bay Lasd:

28 November 1960

Date:

15 November 1960

SO No:

880-0-237

Bafarence:

Sold to:

(a) Telephone request J. Freeman

Aircraft Cas Turbine Division

General Electric Sempany

Cincinnata 15. Chio

to C. J. Dutton 14 Nov. 1960

(b) G. E. letter Charles Byle, Jr.

WO No: 30,770

WIDEL 890 SHIPMENT OF GENERAL MADERIC CJ305-3B ENGINES

(1) General Electric Co. request the return of eight (8) C-805-3B Engines to the General Electric Ontario facility for certain rework modification. The engines in question are to be removed from aircraft production 8/N's 37 and 43 and engine 8/N's are as follows:

Aircraft 37

403-106 403-108 403-107 403-114

Aircraft 43

403-109 403-111 403-110 403-112

Reimbursement

- (3) This sales order authorizes all conterned to proceed with removal of the engines in preparation for shipment to G. E. and reinstallation upon return of the engines from Ontario approximately 15 December 1960.
- (5) ACCOUNTING DEPAREMENT ONLY

JD mh

No. Rios Pipo

havised to make above changes.

for D. H. Digges Manager of Contracts CONVAIR - 8D

Sold to Convair

A Division of General Dynamics Corporation San Diego 12, California SALES ORDER

Date: 10 November 1960

80 No: 880-0-236

AWO No: 141-4 Acct No: 1103-2

CATTAY PACIFIC AIRWAYS

- (1) This Sales Order authorizes a demonstration flight for the following Cathay Pacific Airways personnel, J. T. Gething, Engineering Director, and Captain D. Smith, Flight Superintendent, on or about 14 November 1960.
- (2) All costs incurred in connection with this demonstration flight is to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Raenwein on 11 November 1960.

+MD) UV/WE

HEID: ag

Log No: 3193

D. H. Digges

Manager of Contracts

CONVAIR-SD

SALES ORDER

Sold to:

Convair

Date: 8 November 1960

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-235

WO No: 30,000 Series

CONVAIR - 880

PRODUCTION MATERIAL ON LOAN TO MOCK-UP DEPARTMENT CONVAIR - 880 MOCK-UPS

- At the time the original 880 (lyiodel 22) cockpit mock-up and other sales meck-ups were built, a number of items were loaned by Production to the Mock-Up Department, Building 69.
- (2) Now that there is no longer a requirement for the Model 32 mockaups all material on loan will be returned to Production for updating and use on the Production line.

SJH:sw

Log No. 3195

Manager of Contracts

CONFAIR - Bara Diego

Sold to:

Somvair

A Division of Omeral Dynamics Corporation

San Diego 12, California

Derbe :

80 No:

3 November 1950

Reference: (a) Memo R. R. Hoover to T. J. Sullivan

dated 25 October 1960

WO Ho:

See below

380-0-234

(b) CPO 60-174 dated 16 September 1960.

revised 6 October 1960

PEASE II OF SPECIFIC RANGE PROGRAM - 880 AIRGRAFT

- (1) This sales order authorizes all conserned to proceed with Phase II of the performance and specific range improvement program for Model 22 aircraft in mooredenes with details provided in References (a) and (b) (Items A through I only as outlined in Paragraph III of the CPO).
- (2) Since it is contemplated that the engine manufacturer may participate in the cost in connection with this program, it is essential that Accounting Department securulate separately costs developed under Items A. B. C. and D of CPO 60-174 as revised in accordance with the following:

Item No.	Work Order No.
A	30741
B	30742 30743
C	30743
D	30744

(3) The above work order and item numbers are to be referenced in connection with Muri accomplished under this sales order authorization to assist in asperation of costs.

RECEIVED

NOV 4 '60 PROVECT

SPEC. GROUP

ing tip. 1067

D. H. Digges Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

4 November 1960

No. 95

BASIC MINUTES

Model 22-0

Reference:

(a) S. O. 880-0-234 dated 3 November 1960

(b) CFO 60-174 dated 16 September 1960, Revised 6 October 1960

PHASE II OF SPECIFIC RANGE PROGRAM - 880 AIRCRAFT

These minutes direct all concerned, as authorized by Reference (a), to proceed with Phase II of the performance and specific range improvement program for Model 22 aircraft in accordance with Reference (b)(Items A through D only, as outlined in Paragraph III of the CPO).

Since it is contemplated that the engine manufacturer may participate in the cost in connection with this program, it is essential that costs under Items A, B. C, and D of CFO 60-174 be accumulated in accordance with the following:

Item No.	Work Order No.
A	30743
B	30742 30742 30743 30744
ם	30744

ACTION: All concerned are authorized to proceed as noted above.

F. H. Sharp

Project Engineer

FHS/JMC/dr

CONVAIR - SD

Sales Order

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California Date: 31 October 1960

SO No: 880-0-233

AWO No: 141-4 Acct No: 1103-2

AUTHORIZATION FOR NON-INTERFERENCE FLIGHT SWISSAIR AND JAL PERSONNEL

- (1) This Sales Order authorizes the following Swissair and JAL personnel to ride on a production flight on either Ship No. 13 or 14: Captain A. Schaerer, Captain Staubli, Captain P. Bois and Captain Burkhard of Swissair; Captain M. Aschim of SAS; Captain Y. Goto of JAL. No demonstration is necessary and no budget funding will be required. This flight will be made subsequent to initial shakedown flight.
- (2) Production Flight is requested to notify C. J. Dutton, Commercial Contracts, when the above mentioned flight is scheduled.
- (3) This flight has been approved by Mr. A. C. Esenwein on 1 Hovember 1960.

A 4-SC SIVI

71-02-11-20

Log No: 3053

D-0:99m

D. H. Digges Manager of Contracts

6-122

CONVAIR-SAN DIEGO

SALES ORDER

Sold to: Convair

REVISED: 6 Oct. 1960 Date: 5 October 1960

A Division of General Dynamics Corporation

SO No: 880-0-232

San Diego 12, California

WO No: 30,000 Series

CATHAY PACIFIC STUDY AUTHORIZATION

- (1) This Sales Order authorises Engineering to proceed with the task necessary in preparing a Work Statement to be used in connection with pricing the following changes to the Model 22M Speculative Aircraft (22-21 Ship No. 4) as released under Sales Order 880-0-208 as revised 26 September 1960.
 - (a) Install Selcal.
 - (b) Install dual HF.
 - (c) Install large forward cargo door.
 - (d)knokwetalhoentengentionchunk
- (2) In addition Cathay Pacific has requested price and delivery schedule of a second Model 22M in the identical configuration as reflected in the Model 22M Speculative Airplane together with those changes outlined in paragraph (1).
- Division Estimating in preparing cost estimates on these changes should use an amoritization base of two aircraft and should have such estimates available for review on or before 12 October 1960.
- (4) By copy of this Sales Order, it is requested that Master Planning determine delivery positions for the Model 22M Speculative Aircraft in the configuration described above and a second Model 22M in the same configuration assuming go-ahead 30 October.

RL.W:sw

Log No. 2819

Revise 1018 amend para. (1).

for D. H. Digges

Manager of Contracts

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SPEC.

CONVAIR - SD

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California SATES ORLER

Date: 20 September 1960

SO No: 880-0-231

AWO No: 141-4 Acet No: 1103-2

USAF AND NAVY PERSONNEL

- (1) This Sales Order authorizes two (2) demonstration flights on ship No. 4, the morning flight for the following Air Force personnel, Colonel O'Conners, Hajor Greenwood and Major Schmidt; the afternoon flight for Vice Admiral Ekstrom, U. S. Navy, on or about 20 September 1960.
- (2) All costs incurred in connection with these demonstration flights are to be charged to the account number referred to above.
- (3) Wiese demonstration flights have been approved by Mr. A. C. Esenwein on 20 September 1960.

HBD: bs

Log No. 2718

0.933

D. H. Diggss Manager of Contracts

CONVAIR-Sen Diego

SALES ORDER

Sold to:

Convair, A Division of

Date:

30 August 1960

General Dynamics Corporation San Diego 12, California

8.0. No:

880-0-230

Reference:

(a) Memo, R. G. Monsees to B. L.

Acct. W.O. Ho:

1330

McDonald, dated 24 August 1960

1332

San Diego Division Assist to General Office Departments 1-96, 1-97, and 1-98

- (1) Pursuant to Reference (a), this Sales Order authorizes the Engineering Dynamics Lab (Dept. 6-38), Engineering Materials Lab (Dept. 6-39), and Experimental Factory (Dept. 31) to perform work requested from time to time by General Office Departments, Dynapak 1-96, Convair Instruments 1-97, and Project X 1-98. Each specific task requested by General Office will be outlined on an AVO to R. G. Monsees.
- (2) The AVO will be forwarded to Engineering Cost and Schedules where an EWO number will be assigned. All costs in connection with this Sales Order are to be accumulated and charged to one of the following Accounting Work Orders:

Acct. W.O. 1330 - Costs for Dynapak, Dept. 1-96

Acct. W.O. 1331 - Costs for Convair Instruments, Dept. 1-97

Acet. W.O. 1332 - Costs for Project X, Dept. 1-98

and transferred to General Office by Inter-Division Invoice.

SJH:b

for D. H. Digges Manager of Contracts All Mills - Shan Dingo

BALLES DESIR

REVISED: 6 September 1500

data con

A Mirision of General Dynasdas Carpo han desp 12, Onliferate

IN MUSE TO THE OWNER OF THE PARTY OF THE PAR

politication: (n) hand C. La Pandor to D. H. District duted 22 August 1550

(1) Consulr Letter - Berid Downy to M. D. Masseystrod't of Prop. Inc. unted 22 August 1746

HO Bo: On call Special

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- The dispersional willis Reprint mass (a), while the last Order method these wellall a Parables triber overlag protegrand of a prototype tourist triber who are where . Remo, This
- the heavenest (b) letter required your product immiliately the inrearisation of subject and, and rebrine the at the and bloc bet a dormale. The Herburghes (b) letter also stated Correin's velocities to that the probability meet would be smalledder in approximately to the moving, and at a period and to compared \$2,012.

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SALES OFFIEL

ma: Commis

Printing of General Species freportion See Diego 12, Cults Date: 19 August 1960

3.0. No.: Ck-, .28

AMC No.: 141-7

Acet. No.: 1103-2

DEPOSTRATION VILIGIT

CONVITE 880 - SULTOR GENERAL MARK BRADIET LCS/M USAF

(1) This Sales Order authorizes a demonstration flight on a ship to be designated by the undersigned for Maj. Gen. Hark Bredley, TOS/M, UNAY, on Priday, 19 August 1960.

(2) All osts incurred in commection with this demonstration flight are to be charged to the account number referred to shows.

Lang No 23 Management of the second of the s

D. H. Diggsa Manager of Contracts CONVAIR - SD

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California Date: 4 August 1960

SO No: 880-0-225

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - BRAZILIAN AND U.S. OFFICIAIS

- (1) This Sales Order authorizes a demonstration flight on ship No. 4 for Maj. Gen. Francisco de Mello, Air Minister of Brazil; Brig. Gen. Francisco Teixeira, Chief of Brazilian Air Minister's Cabinet; Col. Pedro Pessoa de Almeida, Brazilian Air Force; Capt. Aroldo Correa de Mello, Brazilian Air Force; Capt. Jose Pessoa Gaucalcanti de Alburquerque; Capt. Lucillo Octavio Martins Caldas, Brazilian Air Force; Maj. J. V. Ruy Barbosa, REAL Airlines; and Gen. Richard T. King, U.S.A.F., on or about 10 August 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Eserwein on 4 August 1960.

expair.

Log No. 2279

D. H. Diggs Manager of Contracts CONTAIR-San Diago

SALES ORDER

Sold to:

Convair, A Division of

General Dynamics Corporation

Date:

8 July 1960

San Diego 12, California

S.O. No:

880-0-224

Reference:

(a) Memo, R. G. Monsees to E. L.

McDonald, dated 5 July 1960

W.O. No:

141-4

G.O. Acct. No:

210-2

MACHINE WORK - PLICK CONFIDENCIALOR

- (1) Pursuant to Reference (a), this Sales Order authorizes Department 31 to perform machine work on a flux concentrator in accordance with verbal agreement and specifications submitted by Mr. W. Harris (Department 1-96) to Mr. W. Durflinger (Department 31). All material for the work authorized hereunder is to be supplied by Department 1-96.
- (2) The work authorized hereunder is not to exceed 40 manhours. All costs in connection with this Sales Order are to be accumulated and charged to Accounting Work Order No. 141-4 and transferred to General Office Account No. 210-2 by Inter-Division Invoice.

EIN:be

for D. H. Digges Manager of Contracts

SALES ORDER

SOLD TO: General Electric Company

Jet Engine Division

Evendale, Ohio

Date: 1 July 1960

S. O. No: 880-0-223

Reference: (a) TWA request (verbal), R. W. Rummel-

R. C. Leomia, 30 June 1960

W. O. No: 1895

REWORK OF CJ805-3 ENGINES

- 1. TWA has experienced two instances of first stage turbine blade/shroud interference on N808TW (S/N 10) and requests corrective action on all engines prior to delivery.
- 2. General Electric has agreed to accomplish corrective action on all engines. The rework will be accomplished locally by G.E. personnel; however, installed engines must be removed and reinstalled.
- 3. All engines through Serial Number 161-294 require rework.
- 4. Airplanes affected:
 - 22=1 All except N808TW (S/N 10)
 - 22-2 All except N8802E (S/N 7), N8803E (S/N 11), N8805E (S/N 17) and N8806E (S/N 21).

Engines installed in excepted sirplanes will be reworked in the field per G.E. Service Bulletin.

- 5. This Sales Order authorises all departments concerned to support this program as required.
- 6. All costs incurred in connection with this Sales Order are to be charged to the Work Order Number referred to above.

RP:1p

SAS

D. H. Digges Manager of Contracts

Log No. 1939

CONVAIR-San Diego

SALES ORDER

Sold to:

Convair, A Division of

Date:

30 June 1960

General Dynamics Corporation San Diego 12, California

80 No:

880-0-222

Raference:

(a) Memo, R. G. Monsees to E. L.

McDonald, dated 28 June 1960

Acct. WO No:

1697

G.O. Acct. No:

210-3

SHOCK INDICATOR ACCEPTERATION PROTESTIVERANTIRE DESIGN

(1) Pursuant to Reference (a), this Sales Order authorizes the Engineering Dynamics Lab, Department 6-38, and the Experimental Factory, Department 31, to perform combined acceleration-temperature tests to determine tripping levels of Convair Instruments' shock indicator within the following ranges:

Acceleration Range Temperature Range 30 to 400 -64°F., + 135°F. to 175°F.

(2) The work authorized hereunder is not to exceed 40 manhours as follows:

Engineering Dynamics Lab, Department 6-38 - 16 hours Experimental Factory, Department 31 - 24 hours

All costs in connection with this Sales Order are to be accumulated and charged to Accounting Work Order No. 1697 and transferred to General Office Account No. 210-3 by Inter-Division Invoice.

ELM:bc

Log No: 1923

for D. H. Digges Manager of Contracts

CONVAIR -SD

SALES ORDER

Date: 22 June 1960

SO No: 880-0-221

WO No: 30,000 Series

Sold to:

Alaska Airlines, Inc. 2320 Sixth Avenue Seattle l, Washington

Reference:

(a) Purchase Agreement between General Dynamics Corporation, Convair Division

and Alaska Airlines. Inc. (b) Sales Order 880-0-208

SALE OF ONE (1) MODEL 22M AIRCRAFT TO ALASKA AIRLINES, INC.

- (1) A firm Purchase Agreement has been executed by Alaska Airlines covering the sale of one (1) Model 22M aircraft as described in Detail Specification Report No. ZD-22-300 dated 1 November 1959 together with Addendum III dated 18 May 1960 describing certain changes to the aforementioned Specification.
- (2) The Aircraft described in paragraph (1) is scheduled for delivery to the customer as follows:

Month of Delivery

Number of Aircraft

April 1961

One (1)

- (3) The aircraft described in paragraph (1) represents one of the three speculative Model 22M aircraft scheduled for delivery in April 1961 in accordance with the reference (b) sales order. The reference (b) sales order will be revised immediately to reflect a reduction of one (1) Model 22M speculative aircraft in accordance with this sales order.
- (4) Point of delivery of the Alaska aircraft shall be San Diego, California, with expenses of/or in connection with flyaway from San Diego, California, to be borne by Alaska.
- Customer Service, in coordination with the Engineering and Fire [VE] (5) Departments, shall prepare and delivery all handbooks, information and data in quantities and at the time set out in Article 11 of the Pulchase Agreement.
- Customer Service Department shall prepare a ground training proffan for (6) Alaska and will meet with the customer together with Commercial Contracts to agree upon such proposal. Customer Service will furnish Alaska the services of Field Service Representation as specified in Article 11 of the Purchase Agreement.

Page One of Two

Log No. 1848

CONVAIR-SD

SALES ORDER

Sold to:

Alaska Airlines, Inc. 2320 Sixth Avenue

Seattle 1, Washington

Reference:

see page one

Date: 22 June 1960 SO No: 880-0-221

WO No: 30,000 Series

RLW:dm

D. H. Digges

Manager of Contracts

⁽⁷⁾ Flight Department shall propose a ground and flight pilot training program for Alaska. Such proposal to be agreed upon with the customer in conjunction with Commercial Contracts.

Further information pertinent to Buyer furnished engines, spares, (8) customer version number and other peculiar contractual matters are anticipated within afew days and by revision to this sales order the additional information will be distributed.

CONVAIR A Division of General Dynamics Corporation (San Diego)

24 June 1960

No. 3 Model . 22-21

ALASKA MINUTES

Reference: (a) S.O. 880-0-221, dated 22 June 1960

(b) s.o. 880-0-208

SALE OF ONE (1) MODEL 22M AIRCRAFT TO ALASKA AIRLINES, INC.

- 1. Reference (a) Sales Order announces the sale of one (1) 22M aircraft to Alaska Airlines, Inc., as described in Detail Specification Report No. ZD-22-300, dated 1 November 1959 together with Addendum II, dated 18 May 1960 describing certain changes to the aforementioned Specification.
- 2. The aircraft described in paragraph (1) is scheduled for delivery to the customer as follows:

Month of Delivery

Number of Aircraft

April 1961

One (1)

- The aircraft described in paragraph (1) represents one of the three speculative Model 22M aircraft scheduled for delivery in April 1961 in accordance with the reference (b) Sales Order. The reference (b) Sales Order will be revised immediately to reflect a reduction of one (1) Model 22M speculative aircraft in accordance with this Sales Order.
- 4. It is the intent that this aircraft shall be described engineering-wise as a 22-21 ship No. 2.

ACTION: Engineering to prepare EWOs outlining the task involved in modifying the 22-21 No. 1 drawings to reflect the airplane described in paragraph (1). Engineering releases are to be established for the above configuration and identified to ship 22-21 No. 2 and on in order to give coverage for the "and on" sirplanes. Approval of budget for the established ExOs or Chief Engineer's signature on EWO will constitute go-shead for the task described.

JTR:VAC:gm

Mabe

Revised: 25 James y 1961
Revised: 9 January 1961
30 Receivefeller Plaza

New York 20 New York S.O. No: 880-0-220

Agreement dated 21 June 1960 W.O. No: 1892

(c) Amendment No. 1, dated 20 April 1960
(d) Amendment No. 1, dated 21 December 1960
(d) Memo, Jodan/McDonald, dated 4 January 1961
(e) Memo, Jodan/McDonald, dated 24 January 1961

ELECTROSTATIC DISCHARGE TESTS - CRC

- It referenced Agreement sets out arrangements between Coordinating Research Jonnell, Inc., and Convair for the conduct of certain research work in con-
- the Engineering Department is authorized to proceed with said research work in accordance with Reference (b) and to furnish the report to be submitted our wint to Paragraph I of Reference (a) to Commercial Contracts Department for Lemanittal to the customer.
- The Material Department is requested to provide purchase order coverage for the work to be performed by Thompson Ramo Wooldridge, Inc., and Shell Oil Louway
- (4) The Accounting Department is requested, upon completion of the above progrem, to invoice the Coordinating Research Council in accordance with Paragraph II. of Paference (a).
- (5) Expenditures in connection with this Sales Order shall not exceed \$41,000.

FOR ACCOUNTING DEPARTMENT ONLY

(6) Pursuant to references (c) and (d), Accounting Department is requested to prepare an invoice to the Coordinating Research Council, Inc. for the emount of \$31,280.19, representing cost incurred in connection with the test program conducted horounder. It is requested that said invoice be forwarded to the Contracts Department for transmittal to the customer.

FOR ACCOUNTING DEPARTMENT ONLY

* Substitute \$31,389.10 for amount of invoice in paragraph (6)

1/25/61-Revised to add Ref. (e) and seemd aut. in Para. (6).

D. H. Digges Manager of Contracts Sold to:

Convair

A Division of General Dynamics

Corporation San Diego

Corporation

Date: 10 June 1960

8. 0. # 880-0-219

AHO # 141-4 Acct.# 110:-2

DEMONSTRATION FLIGHT CONVAIR 880 - ALPA

- 1. This Sales Order authorizes demonstration flights for ALPA representatives for a period of seven (7) hours distributed between the dates of 21 June and 24 June 1960. These demonstration flights will be conducted on Ship No. 4 and must be conducted at such times that they will not interfere with the Delta Air Lines Auto-pilot flight test program.
- 2. All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- 3. This demonstration flight has been approved by Mr. A. C. Esenwein on 10 June 1960.

SJH:pj

Log No. 1762

D. H. Digges Manager of Contracts

6-122

CONVAIR - San Diego

Sold to:

Convair

10 June 1960

A Division of General Dynamics Corporation

San Diego

s. c. # 880-0-218

Date:

Haference:

(a) Telecon Authorization from R. K. Rourke, 10 June 1960

W. O. # 30,000 Series

FUEL CONSUMPTION TESTS WITH TWA SHIP NO. 20

- 1. In accordance with Reference (a), you are hereby authorized to conduct two four hour fuel consumption test flights on subject aircraft. These flights should be conducted on Saturday, Sunday, and/or Monday but be completed no later than Monday in order to make the aircraft available for delivery to TWA if circumstances se require.
- 2. Datails of the preparation for this flight and activities following each flight shall be determined by Mr. V. L. Allwardt. Arrangements for an Air Force Chase Airplane will also be made by Mr. Allwardt.
- 3. Field Operations is requested to retrim the engines to the new trim procedure.

FSC: p.j

Managar of Contracts

Log No. 1746

RECEIVED

JUN 13 '60

PROJECT SPEC GROUP

CONVAIR - San Diego

SALES ORDER

Sold to:

Convair

A Division of General Dynamics

Corporation

San Diego

Dates

2 June 1960

B. O. #

880-0-217

AWO # Acet. # 141-4 1103-2

DEMONSTRATTION FLIGHT CONVAIR 880 - RASTERN AIR LIMES

- 1. This Sales Order authorizes a demonstration flight for Capt. Rickenbecker, Chairman of the Board of Bestern Air Lines. This demonstration flight will be on or about 14 June 1960 on Ship No. 4.
- 2. All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- 3. This demonstration flight has been approved by Mr. A. C. Esenwein on 3 June 1960.

(AGZ

Log No. 1708

D. H. Digges Managar of Contracts

CL WARR SD

SALES ORDER

*Revised 26 July 1960

Jazas

34 Parameter

Federal Aviation Agency 1711 New York Avanua, 14.W.

Washington, D.C.

SG Not

R89 - L-216

Buforemen:

(a) Sales Order No. 380-0-208

WC No. 30, 000 Sertu

(b) Telephone conversation between

E. R. Quesada (FAA) and J. V. Naish (Convair)

(c) TWX, Mulari to Wintringer dated 26 July 1960

SALE OF CHE (1) MODEL 28M ASRCRAFT TO SEDERAL AVIATION OF W. F

1 t The Fideral Aviation Agency has agreed to parchane one (4) Hodel 22 aircraft as described in Detail Specification Report to TD-21-3 2 and 1 November 1939 together with the following changes:

Datate To these chase as sent a seate.

I metall critical or provisions.

Install elements in how of passing its frame.

I he all the M. KW. all realer and C.D.

describ landing gear on indication lights.

Incial 5. 1 - 2 Vall Transact lyr in Role of Siles of Same

Install flight data recorder.

Install 5th cockpit occupate seat in cockpit.

(i) Delete 3 buyer furnished (buffete listed under (Appendix

and as Tollows:

(1-A of Spacification.

North of Delivery

Number of Athorate

prist 1961

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Sold and

Federal Aviation Agency 1111 New York Avenue, N. W. Washington, D. C.

Reierent

See page care

*Revised 26 July 1960

30 Jane 19

SO No: 880-0-675

WO No. 30, 200 Series

- Contour Service, in coordination with the Engineering and Filiph: minariments, thall prepare and deliver all handbooks, Andermation and the demandation and at the time set out in Arthelia I at the ar mace Agreement.
- the service Department shall propore a ground training program. 15) be and will meet with the austomor together with Commercial a ratts to agree upon each proposal. Customer Service will its out the he had the services of Field Sarvice Representation an specified in take It of the Furchuse Agree buss.
- 11 the ther information purtinum to creat training, spaces, sic and other to callian command matters are anticopated within alew days and by to the sales order the additional latermation will be distributed.

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- 1 - 1 - 2 - 2

*Revised to add (1)(g)(h)(i)

D. H. Diggee himneger of Comeracts

AMUELLAD and superseded by Sales Order No. 880.26.1

CONVAIR A Division of General Dynamics Corporation (San Diego) Regised II July 1060 6 July 1960

Ho . 1 Mcdel 22-21-3

Revised 21 September 1960

FAA MINUTES

(a) S. O. No. 880-0-216 dated 6-30-6 . Rate S. C. No. ARA . Reference: (b) S. O. No. 880-0-208 8 September 1960.

SALE OF ONE (1) MODEL 22M AIRCRAFT TO FEDERAL AVIATION AGENCY

- 1. By reference (a), the Federal Aviation Agency has agreed to purchase one (1) Model 22M aircraft as described in Detail Specification Report No. 20-22-300 dated 1 November 1959 together with the following changes:
 - a) Delete 76 first class passenger seats.

b) Install overwater provisions.

c) Install electric in lieu of pneumatic from.

d) Install 4th 40 KVA alternator and CSD.

Install landing gear pin indication lights.

- f) Install 51R-3 VHF Transmitter in lieu of 51R-4 Transmitter
- 2. The aircraft described in pursuing (a) is scheduled for delivery to the FAA as follows:

Month of Delivery Number of Aircraft April 1961 One (1)

- 3. This aircraft represents one of the two remaining Model 22M speculative aircraft scheduled for delivery in April 1961 in accordance with the reference (a) salas order. Indications from the FAA are that additional changes will be discussed between Convair and the FAA representatives in the near future. However, subsequent changes incorporated on this aircraft will be subject to negotiations with respect to aircraft price, weight and/or delivery schedule.
- 4. It is the intent that this aircraft shall be described engineering-wise as a 22-21 ship No. 3.
- ACTION: Engineering to prepare EWOs cutlining the task involved in medifying the 22-21 No. 2 drawings to reflect the airplane described in paragraph (1) Engineering releases are to be established for the above configuration and identified to ship 22-21 No. 3 and on in order to give coverage for the "and on" airplanes. The Chief Engineer's signature on EWO constitutes go-ahead for the task described.

Engineering Design Groups to determine limitations and stone by July 18.

Alledy F. 7/7/60
Diect Engliser

Alley 111160

Jis : AA : dr

CONVAIR - SD

SALES ORDER * CANCELED (6/24/60

Convair, a Division of General Dynamics

Date: 18 May 1960

Corporation

Sam Diego 12, California

SO No:

880-0-215

References

Cold to:

(a) Sales Order 880-0-208 dated 7 April 1960 WO No: 30,000 Series

revised 10 May 1960

MANUTACTURE OF ONE (1) MODEL 22M AIRCRAFT

- (1) This Sales Order authorizes all departments concerned to proceed with the design, release and manufacture of one (I) Model 22M aircraft as described in Specification Report No. ZD-22-300 dated I November 1959 plus the following changes:
 - 1) fastall overwater provisions.
 - 2) Install flight data recorder.
 - 3) hastall dual HF
 - 4) Enlarge forward cargo door.
- 2) No exponess are to be incurred that are not posential to support an August 1961 delivery schedule. This authorization against an additional Model 22 and 22M will be available for delivery in August 1961 providing adjahead is received by I June 1960.
- (3) The Material Department will attempt to obtain from renders no cost or minimum cost concellation/stop-work agreements if this sales order is reacheded on or before 17 June 1960.
- 4 The aircraft described above is additive to the three Model 22M speculative agreealt described in the reference (a) sales order.
- (5) This nales order will expire by its own terms on 17 June 1960 unless extended on or before that date.

L.W.cim

*Canceled 6/24/60

D. H. Diggen Manager of Contracts

Log No. 15-10- 2025

CONVAIR A Division of General Dynamics Corporation (San Diego) 23 May 1960 No. h 22.7 MINUTES 22-7 Nodel Revised & June 1960 20 July 1960 (a) 5. 0. 830-0-21d dated 18 May 1960, Bey. 25 June 1960 (w) Minutes #3 dated 17 May 1960 record (a) sutherized the manufacture of one sireraft to be described to | Specification ZD-22-300 dated | November 1959, plus the foldowing Install overwater provisions. Install flight data recorder. Install dual HF. Salarge forward cargo door. The 1950 which is now in progress or has been campleted, will the preparation work is to be done in connection with Item; through listed above. Engineering on these peculiarities will be grered by a revision to this Sales Order and will be assign to me Model Number designation established for the quatouer. The June 24 revision of this Salas Order cancals the subject sixcraft. Two ten go 5. P. Bendy, Jr. Pro cot E. i seer 6-115

CONVAIR-Sen Diego

SALES ORDER

Sold to:

Conveir, A Division of

General Dynamics Corporation

Sen Diego 12, California

Date:

10 May 1960

SO No:

830-0-214

Perenco:

(a) Memo, Wolcott to Herbig, dated 19 April 1960

(b) AVO, Buckner to Donaldson, dated 1 March 1960

Acet No: 1103-2

REVISION TO ROTHE ANALYSIS PROGRAM

- (1) Pursuant to Reference (a), this Sales Order authorizes the Digital Computer Laboratory (Dept. 6-35) to initiate and complete the task of ravising and reprogramming the current route analysis program as outlined under Reference (b).
- (2) The work authorized hereunder is not to exceed 500 manhours and one hour IBM 704 machine time. Manhours are to be charged at \$6.28 per hour and are not to exceed \$3,140.00. Itsi 704 machine time is not to exceed \$300.00 per hour. All costs in connection with this Sales Order are to be accumulated and charged to General Office Account Fo. 1103-2.

EIM:bc

) Log Ro. 163

D. H. Digges Hanager of Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date: 6 May 1960

SO No: 880-0-213

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT

CONVAIR 880 - TCA

- (1) This Sales Order authorizes a demonstration flight for the following TGA personnel: Mr. H. W. Seagrim, Vice President Operations; and Mr. J. T. Dyment, Chief Engineer. This demonstration flight will be on or about 17 May 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 9 May 1960.

an

HBD :ha

Log No. 1424

7 D. H. Digges Manager of Contracts

C O N V A T R A Division of General Dynamics Corporation (San Diego)

AT

23 May 1960

22-7 MINUTES

No. 4 22-7 Model

Reference:

(a) S. O. 880-0-213 dated 18 May 1960

(b) Minutes #3 dated 17 May 1960

Reference (a) authorized the manufacture of one aircraft to be described in detail Specification ZD-22-300 dated 1 November 1959, plus the following changes:

1) Install overwater provisions.

2) Install flight data recorder.

3) Install dual HF.

4) Enlarge forward cargo door.

ACTION: Engineering task as authorized in Reference (b) Minutes #3 dated 17 May 1960 which is now in progress or has been completed, will give coverage for the aircraft authorized in Reference (a). For the present no work is to be done in connection with Items 1 through 4 listed above. Engineering on these peculiarities will be covered by a revision to this Sales Order and will be assigned to the Model Number designation established for the customer.

JTR:VAC:18

Project Engineer 6-115

RECEIVED

MAY 25 'FO

SPEC

CONVAIR-San Diego

SALES ORDER

Sold to:

Reference:

Convair, A Division of

General Dynamics Corporation

San Diego 12, California

(a) Memo, B. Coggan to R. Brewton,

dated 21 April 1960

(b) MCL No. 10,506

Date:

26 April 1960

80 No:

880-0-212

WO No:

30,000 Series

41,000 Pt. Altitude Certification & Inoperative Equipment Certification Models 22, 22M & 30

- (1) Pursuant to Reference (a), this Sales Order authorizes all concerned to proceed with the tasks set forth below:
 - a. 41,000 Ft. Altitude Certification (22, 22M & 30) (Reference (b))
 - b. Inoperative Equipment Certification (22, 22M & 30)
- (2) There are no costs to the customer in connection with this Bales Order.

KLM bc

og No: 1275

Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

2 May 1960

No. 93 Model. All

BASIC MINUTES

Reference: (a) 8.0. 880-0-212, dated 26 April 1960 (b) MCL 10,506

41,000 FT. ALTITUDE CERTIFICATION & INOPERATIVE EQUIPMENT CERTIFICATION

As authorized by Reference (a) Sales Order, these minutes authorize all concerned to proceed with the tasks set forth below:

- a. 41,000 ft. Altitude Certification (22, 22M & 30)
 Reference (b)
- b. Inoperative Equipment Certification (22, 22M & 30).

ACTION: All concerned are authorised to proceed with the above.

RRH: JMC: gm

R. R. Hoover Chief Project Engineer

RECEIVED

PROJECT SPEC. GROUP CONVAIR-SD

SALES ORDER

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date: 25 April 1960

50 No: 880-0-211

AWO No: 141-4 Aget No: 1103-2

DEMONSTRATION FLIGHT

CONVAIR 880 - SWISSAIR/SAS

- (1) This Sales Order authorizes a demonstration flight on Airplane No. 4 on a non-interference basis for Captain Karl Schaerer, Swissair 600 Technical Pilot; Captain M. Aschim, SAS 600 Technical Pilot; and F. Allemann, Flight Engineer/Simulator Instructor 600 aircraft, on or about 25 April 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 25 April 1960.

ItAN ONL

HBD:hs

Log No. 1310

000

D. H. Digges Manager of Contracts

SALES ORDER

Date:

30 June 1960

S. O. No: 880-0-210

Referènce:

Sold to:

(a) Memo, R. R. Hoover to D. H. Digges, dated 30 June 1960

Dynamics Corporation

CONVAIR, A Division of General

San Diego 12, California

(b) Telecon, R. R. Hoover to R. W. Rummell. of 30 June 1960

W. O. No: 30632

SPECIFIC RANGE PROGRAM - INITIAL CONVAIR - 880

- I. As evidenced by Reference (a), TWA has given Convair permission to use Airplane Serial No. 24 for a series of three flight test conditions to investigate the effects of trim on the SFC of the engines. The program involves approximately two days of preparation for initial flying.
 - A. During this period, the engines will be trimmed to the -50 procedure (G.E.), fuel flow maters and transmitters, airspeed, mach mater, altimater, and certain temperature indicators will be calibrated. Sensitive reading altimeter gages will be installed. Airspeed system is to be carefully leak checked and sealed as necessary to provide flight test accuracy. Increased diameter gages will be installed for the flow maters. Camaras or instrumentation are to be installed to provide data confirming whether the nose and main landing gear doors bulge during flight. If such bulging is encountered, procedures are to be established which will assure they remain closed during succeeding flights.
 - B. Nine hours of flight will be accomplished in the aforementioned configuration to obtain fuel consumption data for various gross weights and airspeeds at 25,000 and 35,000 feet.
 - C. Upon completion of the above flying, the engines are to be retrimmed to the procedure and settings representative of airplane No. 3 settings. Normal maintenance as required will be accomplished.
 - D. Six hours of flight will be accomplished to obtain data at this trim setting comparable to that obtained in the initial flights.
 - E. Following satisfactory completion of above flights, the engines will be retrimmed to lower trim setting and procedure, which will be furnished by Flight Test. To achieve this lower trim setting will require assurance that the suppressors are at the large end of the standard tolerance (355 sq. in. area) Flight Test to advice how to identify these larger suppressors and if on inspection it is found that other than these large suppressors are installed, necessary installations are to be made to provide large suppressors in all engines.
 - F. Six hours of flight are to be accomplished to provide data comparable to that obtained in both flight conditions above.

Log No. 1932

CONVAIR-Sen Diego

Sold to: Convair - A Division of General Dynamics Corporation

SALES ORDER

Date: 30 June 1960 S.O. No: 880-0-210 W.O. No: 30632

Pege Two

- G. Data from each flight is to be reduced immediately so as to provide a complete comparison of observed trim effects within three days after the last flight.
- H. The above program is to be completed July 12 and the airplane returned to Production Factory for clean-up and the installation of flap actuators, increased torque flap motors, etc., as required to make the airplane ready for dalivery.
- The following additional testing will be accomplished on Airplane Serial No. 3. II.
 - A. After completion of the currently scheduled flaps and hydraulic tests, 3-engine ferry, cross-wind and 30° flap tests and certification, Airplane No. 3 is to have its engine trim checked to assure that it is the same as for previous specific range flights and the instrumentation associated therewith is to be recalibrated as necessary.
 - B. Six hours of flight are to be accomplished to obtain fuel consumption data for varying speeds and gross weights at 25,000 and 35,000 feet. This test is to confirm the data previously obtained on this airplane at this trim setting.
 - C. It is currently estimated that the above described fuel consumption recheck will be initiated on 25 July and completed 29 July.
- III. All departments concerned are authorized to proceed with the above program.
- IV. All costs incurred in connection with the flight tests on Airplane No. 24 (Para. I above) and the six hours of flight test on Airplane No. 3 (as described in Para. II B above) are to be charged to the Work Order Number referred to above, and are not to exceed \$162,000. Additional funds, if required, will be authorised by revision to this Sales Order.
- The Division 880 project budget will be increased in accordance with the above. V.

RP:1p

D. H. Diggos Manager of Contracts

CONVAIR-SD

SALES OFDER

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date: 5 April 1960

SO No: 880-0-209

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - NORTHEAST ATRLINES

- (1) This Sales Order authorizes a demonstration flight for the following Northeast Airlines personnel; Mr. Tom Grace, Vice President-Operations; Mr. Ed Schroeder, Vice President-Technical Services; and Mr. Ed Splaine, Chief Engineer. This demonstration flight will be on or about 8 April 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 5 April 1960.

MAD) WY

Log No. 1121

D. H. Ligges

Manager of Contracts

W UH SD

SALES ORDER

**Revised 24 February 1961 Revised 30 January 1961

SO NO. 880-0-208A

J . 900 Sees e

avair, a Division of General Dynamics

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(a) Sales Order teu-u-208 dated differ

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(b) Manorandigo. . Loomie to

Carporation

Can Degut California

Angues L. Laumwein, dased 12,49/60 (c) Sales Order 880-21-21 dated 3 april 1961.

MANUFACTURE OF ONE (1) MODEL ZIM ANGRAFT

(1) this Cales Under Cameria and superestes Sales Order 850-0-205. of come (a), which excharged the manufacture of size (1) Mod l. 22 poculative aircraft through thecomes 960

this Sales Order authorizes continuentian and completion of 21-21, Sale 10. I in the Avones configuration is described in Specification The Little dated in April 1960 in lien of the configuration previously authorized under is reference (a) male corder. Additionally, this Sales Order authorizes impresenting all CCP's approved y Areas a subsequent to Avenoa Change Order No. 1.

> CCE No 2 Change to Main System Hydraulic Pumpe. Specification the - Miscollemenus Ray to CCP No. 4A Spec Language. 5.CP No. 5 Cargo Ma-Down Fittings. CCP No. 6 Specification Chg = Revised C. G. Limits Graph. CCP No. 7 Specification Chg - Ray, to Paras, J. 16. 7 1. 2, 3 .6 7.2 and Pilots' Instrument Panel Illus C 2 Na. 8 specification Chy - Roy. to Part. 3.7.1.1.1. CCP No 9 Specification Chg - Rov. to amorgency radio trans-\$ EO MARE CCP No 10 Specification Chg - Rev. to flare dispenser hanguage Specification Chg - Rev. to Para. 3. 16. 6. 3. 4 and to GCP No. 11 ADF central panel part number

Specification Chg - Clarification of cabin cuiling height COP No. 13 Specification Chy - Addition of static inverter to CCP No. 14 para. 3. 16 2. 4. 1.

MCL

No 14, 051 Fabric reinforced tires.

Installation of Ram Air Temperature Indicator CCP No. 16

CCP No. 17 Installation of Edo Loran

CCP No. 18 Periscopic Sextast Provisions

GCP No. 27 Installation of flight data recorder

CCP No. 15 Specification Change - Revision to engine Spec. Newber

Specification Change - Manufacture Name and Part No. GCP No. 19

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SALE LORDIE

Revised 24 February 106

America a Divinium of General Dynamica

SO NO. 880-0-208A

Sea page one

TANK I

MAKUTACTURE OF ONE (I) MODEL 22M AIRCRAFT

the standard of the relation of the VIF carried of the first particular of the

the authorization is without restriction with respect to expression the bottom will be subject to revision from time to time when and if additional attacked in the particular specification or when a specific customer tax been according to the particular straight

to department 196

*(5) It is recognized certain material, peculiar to the Alaska Airlines configuration, has previously been ordered for this Aircraft. These poculiar items including the Alaska interior color and fabrics, and cuertric freen shall be received and stored pending completion of negotiations with Alaska Airlines on the purchase of a second Model 22M Aircraft.

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D. H. Digger Manager of Contracts

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R C Louwin

C O N V A I R A Division of General Dynamics Corporation (San Diego)

22-21-4 MINUTES REVISED 6 Feb 1961

No. 6

Reference:

- (a) Memo, R. R. Hoover to Distribution, dated 28 December 1960, subject - Model 22-21 #4 -Engineering Stop
- (b) Locats Log #92 dated 1-24-61 S.O. 880-0-208A
- (e) CPO 60-289

Reference (a) is hereby superseded and cancelled.

Reference (b) authorizes the continuation of design task to complete the speculative aircraft (22-21 #4) and further directs that the configuration of this aircraft shall be identical to the Avensa aircraft (22-21 #1) with the exception that the VHF navigation equipment shall be 51X-2 in lieu of 51R-4.

Reference (c) outlines the task required to obtain this configuration with the exception that flight data recorder installation is not authorized at this time. Summarily, the task consists of: 1) change in color coding, 2) installation of dual HF, 3) installation of bilingual signs, 4) installation of tape reproducer, 5) installation of Convair furnished buffets, 6) installation of single DMET, 7) installation of a 12-place lounge, 8) installation of Avensa scating configuration, 9) install pneumatic fraction lieu of electric from, 10) install fabric reinforced times for main landing gear.

ACTION:

All affected Engineering groups are authorized by AVO from Chief Engineer to proceed with the task as outlined in Reference (c) with the exception of the flight data recorder and are directed to submit detailed EVO's to Cost and Schedules for approval of the Project Office within 10 days.

The "and-on" configuration shall be the same as this second Avensa airplane.

Project Engineer

A Division of Gameral Dynamics Corporation (San Diego) Page Minutes No. 3 Model de de 17 May 1960 Revised & Retyped 12 July 1960 Revised 25 August 1960 *Revised 6 Feb 1961 FRevised 6 Feb 1961 Cancelled - Refer to Minutes #6 for configuration of 22-21#4 for Reference; (a) 22-7 Minutes #2 (b) CPO 50-4 Revised 28 January 1960 (c) S. O. 880-0-208 Revised 10 May 1960, Rev. 6 June 1960, Rev. 7/1/ (d) Marso Diagras to Hoover "Model 22-21-4 Selection of Interior Color "Li Fabrics". Reference (c) authorizes the manufacture of one 22M Speculative Aircraft for April 1961 delivery. These aircraft are to be as described in detail specification Report 2D-22-30 dated 1 November 1959, plus the following changes: a. Complete overwater provisions. b. Install 2 track mounted coat compartment dividers c. Instal mixed seating configuration as follows: 59 tourist seats d. Install electric in lieu of pneumatic freca. e. Install 4th 40 KVA alternator and CSD. f. Install landing gear pin indication lights. g. Install 51R-3 in lieu of 51R-4 VHF %rensmitter. ACTION: The 1 July action on this Sales order reduces the total speculative aircraft to one and authorizes that work shall proceed on a day-to-day basis incurring minimum expeditures to support delivery schedule. The configuration of the aircraft is to be as shown on the initial issue of this Sales Order, which is identical to Alaska sircraft. The effect upon Engineering on this revision to the Sales Order is to authorize Alaska as the "and or configuration. The aircraft will be identified as 22-21 ship #4. Ready, Jr. Project Engineer JTR: VAC:dr Reference (d) authorises all departments to install the interior of this airplans in the same colors and fabrics as Alaska. It further requests ordering of the materials to delayed as long as possible but to meet April delivery schedule. This completes the configuration of this 22-21-4 airplane which is exactly like Alaska except/as of 25 August 1960 except: (1) No lounge, Provisions only ATC Transponder, provision only HF.
(2) No Conter Section Note: provision only Night Data Recorder 3) Customer Furnished Buffets. Thirty Six (36) First Class and Fifty-Nins (59) Thurist Seats.

Convair Furnished Engines.

(59) Thurist Seats. (5) Convair Furnishes Engines. Ready 76/61

90. 5 Model 22-21-4 *Revised 6 Feb 1961 Revised 14 October 1960 Permission: S.O 880-0-208, mevised 26 September 1960 5.0. 880-0-208, revised 10 October 1960 3.0. 880-0-208, revised 13 October 1960 Be recruice revision to the Sales Order authorises a soul mant of mirerart 22-21-4 The equipment change and arised is aw follows: Install Acres (3) bay center section and system complete 1. Install Sparry SP 30 succepilet, Sparry flight director and Sparry C-10 compass in lieu of Landix FREO auto-pilot, Calline flight director and continental compass. j. Install large forward arg. door.

ACTION: Engineering is to prepare EMO's covering the above task for thief Engineer's e.garture. These changes are to be under to Ship #4 only, all and or adversit are to be as originally released. These minutes outhorize the engineering changes required to writing the Avense angineering to accommodate the equipment. ABM's are to be revised pending processing. of the final engirerring paper. T. Ready, Jr ACTION: Engineering is to prepare EWO's covering "i" revision to this minutes. Approval of the EWO is to be authority to proceed. It is intended that the 'snd on" aircraft will include the large forward cargo door . . . Ceary 1945 Revised 6 Feb 1961 Cancelled. Refer to Minutes No. 6 for configuration of 22-21-4. Realy 76/61

Sold to:

General Electric Company

Aircraft Gas Turbine Division

Cincinnati 15, Ohio

Date:

29 March 1960

S. O. #

880-0-207

H. O. #

1870

RETURN OF CJ805-3 ENGINES TO GENERAL ELECTRIC - ONTARIO FOR REWORK OF FIRST STAGE SHROUD SUPPORT

1. You are hereby authorized to remove and ship CJ805-3 engines as described below to the General Electric facility at Ontario for the subject rework. Additionally, those engines that are in varying stages of build-up or pod assembly are also authorized for shipment.

Aircraft #1 161-105 -108 - 109 -121	Aircreft #9 161-157 -159 -160 -163	Aircraft #15 161-164 -166 -167 -168
Aircraft #3	Aircraft #10	Aircraft #16
161-123	161-131	161-161
-124	-136	-165
-126	-139	-170
-148	-140	-174
Aircraft #4	Aircraft #11	Aircraft #17
161-107	161-141	161-171
-110	-143	-173
-112	-144	-175
-113	-145	-181
Aircraft #5	Aircraft #12	Aircraft #18
161-125	161-119	161-149
-127	-146	-172
-128	-147	-179
-129	-150	-182
Aircraft #6	Aircraft #13	Aircraft #19
161-134	161-153	161-169
-135	-155	-176
-137	-156	-178
-138	-158	-192
Aircraft #8	Aircraft #14	Aircraft #20
161-142	161-111	161-193
-151	-115	-194
-152	-116	-197
-154	-118	-198

Sold to: General Electric Co.

29 March 1960 880-0-207 Date: S.O.# W.O.#

1870

Page 2

Aircraft #21	Engines in Cans	
161-177	161-200	
-199	-201	
-202	-207	
-203	-213	
om W	-212	
Airceaft #22	-213	
1.61-204	-214	
-205	-215	
-208	-217	
-209	-219	
	-224	
Pods	-225	
161-101	-229	
-103	-230	
-106	-231	
-117	-232	
-162	-235	
-183	-239	
-186	-242	
-188	-243	
-189	-5/h	
-190 -191	-2 45 -2 46	
-195	-249	
-210	-250	
-2.10	-252	
Build-Up	-254	
161-180	-257	
-184		
-185	At Ontario	
-187	-104	
-221	-122	
-222	-120	
-223		
-233		
-237		
-238		

2. All costs associated with this activity must be specifically set out under the Work Order described above. Mr. Paul Osborn will be responsible for coordinating the schedule of removals, shipments and re-installations.

FSC:pj

D. H. Digges Manager of Contracts

SALES ORDER

6-122

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date: 28 March 1960

SO No: 880-0-206

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT

CONVAIR 880 - AVENSA

- (1) This Sales Order authorizes a demonstration flight on Airplane
 No. 1 for
 Mr. Gibson,
 Director of Operations, Avensa. This demonstration flight will
 be on 28 March 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 28 March 1960.

RECEIVED

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PROJECT

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Log No. 941

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To Do H. Digges
Manager of Contracts

SALES ORDER

Sold to:

Convair, A Division of General

Dynamics Corporation

Date:

25 March 1960

8. 0. #

880-0-205 600-0-4

W. O. #

30,000 Series 31,000 Series

PREPARATION AND CERTIFICATION OF MINIMUM DISPATCH EQUIPMENT LISTS

1. The Engineering Department is hereby suthorized to prepare subject lists for each of the three series of jet aircraft currently in production. Subject lists should be standardized for each series of airplanes and supplied to each customer at or prior to the time of delivery. It will be the responsibility of the Engineering Department to insure that the scope of items covered is commensurate with industry practice. Upon completion of lists for each of the Model 22, 22M and 600 series aircraft, they will be approved by the Chief Engineer prior to their release to the various customers involved.

APPROVED:

August C. Esemein

Executive Vice President

L16,01

Dudley H. Digges Manager of Contracts

PSC:pj

Log No. 965

C O N V A I R A Division of General Dynamics Corporation (San Diego)

31 March 1960

No. 92 Model. 22 All Model. 30 All

BASIC MINUFES

Models 22 & 30

Reference: (a) 8.0. 880-0-205, dated 25 March 1960 600-0-4

PREPARATION AND CERTIFICATION OF MINIMUM DISPATCH EQUIPMENT LISTS

The Engineering Department is hereby authorized, as evidenced by Reference (a), to prepare subject lists for each of the three series of jet aircraft currently in production. Subject lists should be standardized for each series of airplanes and supplied to each customer at or prior to the time of delivery. It will be the responsibility of the Engineering Department to insure that the scope of items covered is commensurate with industry practice. Upon completion of lists for each of the Model 22, 22M and 600 series aircraft, they will be approved by the Chief Engineer prior to their release to the various customers involved.

ACTION: All concerned are authorized to proceed with the above.

RRH: JMC: gra

R. R. Hoover Chief Project Engineer

SALES ORDER

Sold to: Convair

A Division of General Dynamics

Corporation

San Diego 12, California

Date: 8 March 1960

SO No: 880-0-204

AVO No: 141-4 Aget No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - EASTERN AIR LINES

- (1) This Sales Order authorizes a demonstration flight for Mr. F.E. Davis, Eastern Air Lines Chief Engineering Pilot, on or about 18 March 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 8 March 1960.

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HBD:hs

Log No. 840

7 D. H. Digges Manager of Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics

Corporation

Date: 16 March 1960

30 No: 880-0-203

ANO No: 141-4 Acet No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - USAF

- (1) This Sales Order authorizes a demonstration flight for Maj. Gen. Stanley Wray, Commander of WADD, on or about 28 March 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 16 March 1960.

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HBD :hs

Log No. 841

70 Do Ho Digges

Manager of Contracts

5 April 1960

EHeviced:

Date: 16 March 1950

5 Division of Cameral Dynamics Corporation

San Chago 12, California

TO THE RESIDENCE

(a) Mano - R. G. Handers to E. L. McI washi dated 14 March 1960

SAN DITTO DIVISION ASSISTANCE TO DEFT. 1-96

(1) Personnel to Heftenesse (a), this Balon Order authorizes the Sen Diego Distants, Espinoaries Dept. 6-35, to process date to be furnished by Dyrapak (Dept. 1-96) on the 704 Compatur. All data processing is to by in an endance with a verbal appreciate between he J. Inlant of Dyrapas and Hr I Senhada of the Compater Lab.

1.25 hours -72-6- 100.0 (2) The work authorized ty/this Sales taker is not to exceed forth hours of stationaring labor and fa-0-base of 704 Computor time. All costs in on which with this bales Order thould be accommisted under Work Order No. 1037 and are to be transferred to General Office Account No. 210-2 by Tiston-Mytheken farmules.

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Gr. D. H. Diggs Manusar of Contracts

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SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation Date: 29 February 1960

San Diego 12, California

60 No: 880-0-201

AWO No: 141-4 Acet No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - KLM

- (1) This Sales Order authorizes a demonstration flight for Mr. George Malouin, KIM's evaluation test pilot, on or about 2 March 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 29 February 1960.

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HBD:hs

Log No. 697

D. H. Digges
Manager of Contracts

COBVAIR A Division of Constal Invites Correction (San Diego) CANCILLED Rev. 11 April 1960 Rev. 18 April 1960 THERAIP ALPLETES MINUTES Literary (a) sales Order Gibo-0-200 dated 25 Nebroary 1960, Can /29 Morch 1960 (b) LEC DELLAS BALE OF MURIL ED AIRCHAFT TO SURTHRAST AIRLIERS and the southert as Tagineering by Reference (a) Bales Offer to proceed the design of Medel 221 At suraft as departhed in Lythia Specification the state of the state of the second of the Design 12 pinds Lorens in lies of 3 rous of first class prostages make, tracks and district with tracks and adjustable overfield. in tell algo! statute confinention as follows: A, a taxerist scentil is limit class sects (exclusive 12 plan loungs) intel 2 cost comparated dividers in New of 2 devole first class death. la el everater revision. Fre the flight date rue re-. Lordall lindle "Job" Berlies flight director system in Lion of Unit, William the elegie EF ayster. the deal Aft transporder system. . install del Cel complete. Later Peodle "I." hand in him of landin "C" weather raine. jarta 1000 wate in lieu of 600 west leading lights. in the 3 Convers in Lion of 3 Customer foredebed toffers - identifical in other a .. THE SALE SALE REPORTED . well the (b) aircrest described in Medal 12-1 Minutes (1, dama 12 december) . . . heles Anthous Alterett, in will carry the Hotel designation () errors is obtained, medical will be authorized by distribution of the · grant Birding All Begineering records are to be brought up to date showing this item

Engineers & shall subside Dio's to Conto a Ethernian for achieving sativity. Wen budget approved in recolmed by when thing highwer's

cancelled.

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SALES ORDER

Sold to: Convair

Date:

23 February 1960

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-199

AWO No: 141-4 Aget No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - USAF

- (1) This Sales Order authorizes a demonstration flight on a non-interference basis for Brigadier General Stan Carpenter, USAF, Commander General, EAFB; and Colonel Royall Baker, USAF, Director of Flight Test, EAFB, on or about 25 February 1960,
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 23 February 1960.

dia

HBD : he

7- D. H. Digges
Manager of Contracts

Log No. 647

SALES ORDER

Dates 23 February 1960

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-198

AVO No: 141-4 Acot No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - SAS

- (1) This Sales Order authorizes a demonstration flight for Anders Helgstrand, Acceptance Pilot, Scandinavian Airlines System on or about 25 February 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 23 February 1960.

AND

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ice ile . 646

D. H. Digges

Manager of Contracts

CONVAIR-San Diego

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 22 February 1960

SO No:

880-0-197

AWO No:

141-4

Acct. No:

1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - AVENSA

- (1) This Sales Order authorizes a demonstration flight for Henri Boulton, Jr., Harry Gibson, Ochoa Tucker (Vice President), and Mr. Carbonelle (Chief Pilot) of Avensa on 22 February 1960, and Mr. Donald Burkey of General Electric.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 22 February 1960.

HBD:1p

Log No.619

Approved by A. C. Esenwein

HBDurhworth.

for D. H. Digges Manager of Contracts

SALES ONDER

Sold to: Convair

Convair

Date: 19 February 1960

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-196

AWD No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - HUGHES TOOL COMPANY

- (1) This Sales Order authorizes a demonstration flight for Howard Hughes on 21 February 1960.
- (2) All costs incurred in consection with this demonstration flight are to be charged to the account number referred to above.

HBD; ha

Log No: 618

1477 Suchworth.

D. H. Digges
Manager of Contracts

SALES ORDER

Date: 18 February 1960

Convair Sold to:

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-195

(a) Mano dated 16 February 1960

R. G. Monsees to E. L. McDonald

WO Ho:

1662

SAN DIEGO DIVISION ASSISTANCE TO DEPT. 1-98

- (1) Pursuant to Reference (a) this Sales Order authorizes the San Diego Division Engineering Material and Process Lab, Dept. 6-161, to perform lap shear tests on approximately 200 lap shear specimens at room temperature and 200 lap shear specimens at 500°F for General Office, Dept. 1-98. Test specimens are to be supplied by Dapt. 1-98 and all tests are to be in accordance with a verbal agreement between W. M. Parker of Material and Process Lab, Dept. 6-161, and J. R. Hooker, Dept. 1-98.
- (2) The work authorized by this Sales Order is not to exceed sixty (60) hours. All costs accumulated in connection with this Sales Order are to be transferred to General Office Account No. 210-4 by inter-division invoice.

RIM: 1±

Log No. 593

for D. H. Digges Manager of Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

DATE:

17 February 1960

SO No:

880-0-194

AWO No: Acat No: 1103-2

141-4

DEMONSTRATION FLIGHT CONVAIR 880 - JAPAN AIR LINES

- (1) This Sales Order authorizes a demonstration flight for Messrs. Tetsuo Obas Director - Technical Department; Rychei Itow, Director - Planning; Captain Y. Itonaga, Chief of Crew Department; Toshio Fukui, Chief of Planning Section; M. Noda, Chief of Performance Section, Engineering; H. Hirasawa, Chief of Section; N. Yamao, Chief of Engines (Japan Aircraft Maintenance Co.); Matsumoto, JAL Purchasing Office, San Francisco; S. Hanawa, DC-8 Office, Santa Monica; Hayakawa, DC-8 Office, Santa Monica. The above are JAL members. This demonstration flight will be on or about 24 February 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- This demonstration flight has been approved by Mr. A. C. Esenwein on 17 February 1960.

HE Damh

Log No. 594

for D. H. Digges

Manager of Contracts

Approved by B. Comean

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 16 February 1960

SO No:

880-0-193

AWO No: Acct No: 141-4

DEMONSTRATION FLIGHT CONVAIR 880 - BRANIFF AIRWAYS

- (1) This Sales Order authorizes a demonstration flight for George Cheatham, Chief Pilot of Braniff Airways, on or about 18 February 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Escavein on 16 February 1960.

Log No. 595

for D. H. Digges Manager of Contracts

Approved by B. Coggan

SALES OF ER

Sold to:

Converte

A Division of General Dynamics Corporation

San Mago 12, California

30 Ho:

*Revised: 19 April 1960

Date: 15 February 1960

880-0-192

Paranance: (a) Maso . R. G. Monaces to E. L. McDoneld

dated 15 February 1960

WO No:

1834

SAN DIRECT DIVISION ASSISTANCE TO DEPT. 1-97

- (1) Furment to Reference (a), this Sales Order authorizes the San Diego Division, Dept. 6-35, to analst in the preparation of a proposal on the Conveir Instruments Tibration Analyzer. This proposal is to be in accordance with a verbal agreement. between Mr. G. M. Getline of Dept. 6-35 and Mr. Al Silverson of Dept. 1-97.
- (2) The work nutharised by this Sales Order should not exceed 50 hours and should be accumulated under Work Order No. 1834. All costs accumulated in connection with this Seles Order are to be transferred to General Office Account No. 210-3 by Inter-Division Invoice.

*Revised to charge para (2)

102 No. 444- 1220

for D. H. Diages Manager of Contracts

SALES ORDER

CONVAIR-SD

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

DATE :

15 February 1960

SO No:

880-0-191

AWO No:

141-4

Acct No:

1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - AMERICAN AIRLINES

- (1) This Sales Order authorizes a demonstration flight for Captain Glen Brink in airplane number 1 on or about 16 February 1960.
- (2) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) This demonstration flight has been approved by Mr. A. C. Esenwein on 15 February 1960.

HBD mh

Log No. 556

for D. H. Digges Manager of Contracts

omcarnelled: 7 mprdl 1960

Revised: 22 March 1960

build in Charles, of Civilsian of Caneral Dynamics

Date: If Publishery Phil

SC/ No. 880 0 190

Reference: (a) Selas Order No. 830-22-1 detail 22 March 1950

WO No. 30 030 Series

MANUFACTURE OF THREE () MODEL AZM AUGRAFT

I this wire Order sufficience all departments concerned to proceed and an extension and remaining the relation and remaining the relation of the ZD 22 300 dated 1 November 17-8 minutes that the later way charges

- in) to molece provisions;
- (b) Provide for related seating configuration;
- the ingral Str. 3 to Heu of SIS-4 VIFF transmitter

Delay Order will expire by it; own taxing an 12 March 1960 unless around as

to expenditures are in be incur ed that are not presented to anymore the

16

21,600

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produced and before abbettered will extempt to obtain them vendors to ever a comment and the Sales Order in

29 Earl 1969 LAND 1960.

The state of the state of the state 22M speculative structure.

No. 5-2- 705 389 1094

THE MAN LES

Dudley R. Lilyens Manager of Captage D

Married to add Ber. (a) and to charge Para. (3) & (4)

Plancelled and opperceded by Sales Order No. 880-22-2

CONVALE - SD

Barringd: S Barron 1960

SATES OFDER Revised: 25 February 1900

Sold to: Compair

Date: 2 February 1960

A Division of General Dynamics Comporation San Diego 12, California

SO 170. 880.0-189

Reference: (e) Mano, R. G. Monsees to

WO No.

1835

E. J. McDonald dated 1 February 1960

SAN DIEGO DIVISION ASSISTANCE TO DEPT. 1-96

(1) Pursuant to Reference (a), this Sales Order authorizes the San Diego Division, Dept. 6-16, to perform methematical calculations using the analog computer No. 3B. The calculations are to be in accordance with verbal agreement between Mr. Burnback of Convair-San Diego and Mr. Yang of Dynapak, Dapt. 1-96.

95:0- 16.0 (2) The work authorized by this Sales Order is not to exceed 19:0 hours of computer time and 20% hours of engineering labor. All costs in connection with this Sales Orier should be accumulated under Work Order No. 1835 and are to be transferred to General Office Account No. 210-2 by Inter-Division Invoice.

Revised to change para. (2). Priviled to charge pure. (2)

> for D. H. Digges Manager of Contracts

Lag No. =412 - 540 762

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 1 February 1960 SO No: 880-0-188

AWO No: 141-4 Acat No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - WESTERN AIR LINES

- (1) This Sales Order authorizes a demonstration flight, on a noninterference basis, for Bud Caward, Director of Flight Operations; Stan Cavill, Regional Chief Pilot; Les Holton, Systems Chief Pilot. The above are Western Air Lines personnel. This demonstration flight will be on or about 1 February 1960.
- (2) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (3) In connection with the above, General Estes, Air Force, and Colonel Draper, Air Force, are also authorized a non-interference demonstration flight。

HBD/hs

Log No. 335

for D. H. Digges Manager of Contracts

SALES ORDER

Sold to: Convair

Date: 1 February 1960

A Division of General Dynamics Corporation

San Diego 12, California

SO Nos 880-0-187

AWO No: 141-4 Acat No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - NATIONAL AIRLINES

- (1) This Sales Order authorizes a demonstration flight, on a noninterference basis, for G. T. Baker, President, National Airlines, on 3 February 1960.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein on 1 February 1960.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

an

HBD/hs

for D. H. Digges Manager of Contracts

Log No. 420

SALES ORDER

Sold to: Convair

Date: 1 February 1960

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-186

AWO No: 141-4 Agot No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - El Al ISRAEL

- (1) This Sales Order authorizes a demonstration flight, on a noninterference basis, for El Al Israel®s Manager of Flight Operations and his Flight Superintendent on or about 8 February 1960.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein on 1 February 1960.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

HAD/hs

for D. H. Digges Manager of Contracts

Log No. 419

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 29 January 1960 Revised: 9 February 1960

SO NO: 880-0-189

AWO No: 141-4 Aggt No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - PACIFIC NORTHERN

- (2) This demonstration flight has been approved by Mr. A. C. Esenwein on he February 1960.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

(AGI

HP9: mh

Log No. 418 493

Plevised 9 February 1960 to delete as indicated in para. (1).

For D. H. Digges Manager of Contracts

SALES ORDER

Sold to:

Convair

Date: 27 January 1960

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-184

Reference: (s) Memo - R. G. Monsees to E. L. McDoneld

dated 26 January 1960

WO NG:

1834

SAN DIEGO DIVISION ASSISTANCE TO DEPT. 1-97

- (1) Pursuant to Reference (a), this Sales Order authorizes the San Diego Division, Dept. 6-163, Engineering Dynamics Lab, to test and evaluate a Vibration Wave Analyzer to be supplied by Dept. 1-97, Convair Instruments. This test will be in accordance with a verbal agreement between Mr. H. B. Bard of Dept. 1-163 and Mr. A. Silverman of Dept. 1-97.
- (2) The work authorized by this Sales Order is not to exceed 56.0 hours. All costs accumulated in connection with this Sales Order are to be transferred to General Office Account No. 210-3 by Inter-Division Invoice.

EIM:1t

for D. H. Digges Memager of Contracts

Log No.338

SALES ORDER

Sold to: 0

Convair

A Division of General Dynamics Comporation

San Diego 12, California

Date: 25 January 1960

SO No: 880-0-183

AWO No: 141-4 Aget No: 1103-2

DEMONSTRATION FLICHT CONVAIR 880 - SWISSAIR

- (1) This Sales Order authorises a demonstration flight, on a non-interference basis, for Dr. J. Ackeret, Director of SwissAir, on or about 27 Jam ary 1960.
- (2) This demonstration flight has been approved by Mr. A. C. Esenvein on 25 January 1960.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (4) In connection with the above, Mr. John H. Rahr, General Manager, and Mr. R. B. Haseldine, Chief Comptroller of BWIA and Mr. and Mrs. Kenny Friedkin of PSA are also authorized a non-interference demonstration flight.

aur.

HBD/he

for D. H. Digges

Manager of Commercial Contracts

Log No. 348

CONVAIR - SAN DIEGO

SALES ORDER

Sold to: Convair, A Division of General Dynamics Corporation

San Diego 12, California

Date:

20 January 1960

SO No.

880-0-181

AWO No: 141-4 Acct. No. 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight for Mr. Paul Johnstone, Assistant Director of Aircraft Evaluation, Hawaiian Air Lines, on Convair 880 aircraft Mfg. No. 4 on 20 January 1960.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the Acct. No. referenced above.

Esenwein

LWelt

D. H. Digges

Manager of Contracts

log no. 299

insurficed: 29 laurch 1960 Parvised: 18 February 1960

Sala to:

A Division of General Dynamics Corporation

San Diego 12, California

Reference:

Memo dated 22 Amember 1959, R. Co. Monaces to E. L. McDonald

WO Nos 1822 (c) AVO-R. G. Mornoso to AVO-R. G. Monsees to R. L. McDonald E. In Photonid dated

dated 17 February 1960

28 Nursh 1960

SAN DIEGO DIVISION ASSISTANCE TO DEPT, 1- 98

(1) Pursuant to Reference (a) this Sales Order authorizes the San Diego Division Dept 6:39, Engineering Material and Process Lab to perform an investigation of the separation of phosphonitrilic compounds for Ceneral Office Cent, 1-92, The investigation is to be in accordance with a verbal agreement between Mr. F. Greber of Dept. 6-39 and Mr. L. Kaplan of Dept. 1-98

The work authorized by this Sales Order is not to exceed 150-hours All. conta accumulated in connection with this Sales Order are to be transferred to General Office Account No. 210-4 by inter-division invoice.

HBD/hc

. No. --- 976

Revised to change para 2.

and add ref. (b) "Bavissi to design pass 2.

end add res (c)

for D. H. Digges Manager of Commercial Contracts

SALES ORDER

Sold to:

Convair, A Division of General

Dynamics Corporation

Date:

5 January 1960

SO No:

880-0-179

AWO No:

141-4

ACCT No:

1103-2

DEMONSTRATION FLIGHT - BRANIFF AIRWAYS

CONVAIR 880

- This Sales Order authorizes a demonstration flight for Braniff
 Airways personnel. This flight shall include Mr. C.E. Beard,
 President, Mr. J.W. Miller, Executive Vice President, Capt.
 R.V. Carlton, Vice President-Operations, Mr. R.E. Sawyer,
 Chief Engineer, Mr. R A Flume, Manager West Coast Engineering
 and Mr. J.H. Alexander. This flight is scheduled for Monday,
 18 January 1960 at approximately 9 a.m.
- (2) All costs, if any, additive to normal flight test costs, incurred are to be charged to the account number referred to above.

Approved by:

ugust C. Esenwein

D RLW:dm

Leg No. 236

Dudley H. Digges

Manager of Commercial Contracts

SALES ORDER

Sold to:

Convair

Date: 29 December 1959

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-178

AWO No: 141-4 Acet No: 1103-2

DEMONSTRATION FLIGHT CONVAIR 880 - AMERICAN AIRLINES

- (1) This Sales Order authorizes a demonstration flight for Messrs. W. Braznell, Kelly Owen, Glen Brink (American Mirlines representatives) on 12 January 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein on 29 December 1959.
- (3) All costs, if any, additive to normal flight test costs insurred in connection with this demonstration flight are to be charged to the ascount number referred to above.

CUT

HBD/hc

Log No. 122

1800 whomall.

for D. H. Diggen Manager of Commercial Contracts

underscancellad: 7 April 1960

wast Revised 9 March 1960 ***Revised 25 February 1960

Revered of farmer 1960 Revised 5 January 1960 SALES ORDER

CONVAIR SD

Reference!

Convair, A Division of General Dynamics Sold to:

Date

28 December 1959

Corporation

(a) Sales Order 880-0-200 dtd 25 February

SO No:

880-0-177

1960 (Northeast Airlines, Inc.)

WO No:

30,000 Series

(b) Sales Order 880-21-1 dtd 22 February 1960 Remised 3/8/60 (Axensa)

MANUFACTURE OF FOUR (4) MODEL 22M AIRCRAFT

- The Sales Order authorizes all departments concerned to proceed with the manu facture of four (4) Model 22M Speculative aircraft as described in Specification 7D 22 300 dated 1 November 1959 plus the following changes:
 - a) Complete averwater provisions.
 - b) Install 2 track mounted coat compartment dividers.
 - c) install mixed seating configuration as follows:

59 -60 tourist seats 36 34 first class seats

- d) Install electric in lies of passmatic frees.
- e) hantall 4th 40 KVA alternator and CSD.
- f) lastell-deal-H. F. equipmont:
- he in tal 5 R-3 in lieu of 51R 4 V
- (2) No expenditures are to be incurred that are not essential to support the following delivery achedule:

195

2 -1--- 0 March -\$ l April

(3) The Material Department will attempt to obtain from vendors be cost or minimum cost concellation agreements if this sales order is rescinded within sixty (60) days from this date.

This Sales Swier orpires I open 1960 caless other size extracted.

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PRe-sed to amend Para (1)(c)

Signed/

D. H. Digges

and delete (1)(f)

Dudley H. Digges Tops No: 3289 131 352 673 765 1093 Dutiley II. Digges Manager of Commercial Contracts

Rev to amend Para (2) and add Ref (a)

*****(Rev to add ref (b) and amend para (2)

uses Cancelled and superseded by Sales Order Ho. 880-0-208

A Division of General Dynamics Corporation
(San Diego)

MODEL 22-7 MINUTES

12 January 1960
Rev. 23 May 1960

C A N C E L L E D

Reference: (a) S. O. 880-0-177

No. 1 Model. 22-7

MANUFACTURE OF FOUR (1) MODEL 22M AIRCRAFT

This Sales Order authorises all departments concerned to proceed with the manufacture of four (4) Model 22M specularive aircraft as described in Specification ZD-22-300 dated 1 November 1999 plus the following changes:

a) Complete overwater privisions

b) Install two track mounted coat compartment dividers

c) Install mixed seating co figuration as follows:

59 tourist seats
36 first-class seats

d) Install electric in lieu of pneumatic freon

e) Install 4th 40 MVA alternator and CSD

These aircraft are to be identified as 22-7 #1 through #4.

No expenditures are to be incurred that are not essential to support the following delivery schedule:

1961

March 2 April 2

These Minutes authorize engineering department to precare EWO's to cover the task described above and in CPO 60-4 dated 1/5/60, immediately. These EWO's are to be forwarded to the Cost and Scheduling Department for later processing after approval of the budget.

S. T. Ready Ar. Project Engineer 6-115

JIR: JMC: 18

SALES ORDER

Sold to:

Convair, A Division of General

Dynamics Corporation
San Diego 12, California

Date:

7 December 1959

SO No:

880-0-176

AWO No: 141-4

ACCT No:

1103-2

DEMONSTRATION FLIGHT - BRITISH WEST INDIAN AIRWAYS

CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Mr. Victor de Verteuil, Asst. Chief Inspector, Capt. Phil Kelshall, Asst. General Manager (Technical), Capt. Keith Maingot, Acting Fit. Operations Mgr., Mr. Peterson, Eng. Rep from BOAC. New York, Mr. William Sapey, Economics Officer British West Indian Airways, Ltd. on Thursday 10 December 1959. Also authorized are Mr. Davis and Splains of Northeast Airlines. This flight is scheduled for 9 a.m.
- (2) All costs, if any, additive to normal flight test costs, incurred are to be charged to the account number referred to above.
- (3) la addition to the above, Mr Henry Bush, Sr Captain for LAV is authorized.

Approved by:

A. C. Esenwein

RLW:dm

Log No. 3127

Midden

D H Digges
Manager of Commercial Contracts

N.7 Paran

CONVAIR - SD

SALES ORDER

Date:

Sold to:

Convair

1 December 1959

A Division of General Dynamics Corporation San Diego 12, California

SO No:

880-0-175

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLICHT CONVAIR 880

- This Sales Order authorizes a demonstration flight for Messrs. Dunn, Rourke, Higginbottem (TWA) and Mr. Nick Carter (GE) on Thursday, 3 December 1959 during the A.M.
- This demonstration flight has been approved by Mr. A. C. Esenwein on 1 December 1959.
- (3) All costs, is any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

RECEIVED

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PROSSIT SPEC.

Log No. 3059

D. H. Digges Manager of Commercial Contracts

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

SALES ORDER

SO No: 880-0-174

AWO NO: 141-4

Acct NO: 1103-2

Date: 23 November 1959

DEMONSTRATION FLIGHT - REAL

CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Major General Francisco Teixeira, Chief of Staff Air Ministry, Major General Joso Mendes da Silva, Director of Civil Aviation Brazil, Captain Ary Flemming, Director of Operations Real, Senor Omar Fontana, Director of Sales and Traffic Real, Captain Caseardy and Captain Teixeira, Real plots, Senor Wilson Cruz, photographer Real, and Senor Jose Carlos Moraes on 24 November 1959.
- 2) This demonstration flight has been approved by Mr. A. C. Esenwein on 23 November 1959.
- 3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

aD:mh

bg No. 2987

M. 99-

D. H. Digges Manager of Commercial Contracts

W. Entrolyemons 6-122

CONVAILE - SAN DIEGO

SALES CRUER

Sold to: Convair

A Division of General Dynamics Corporation

Sen Diego 12, California

Date: 10 November 1959

*Revised: 17 November 1959

SO No:

380-0-173

WO No: 30,000 Beries

INSTALLATION OF PASSENUER SEATS - 880 AIRCRAFT NO. 4

(1) This Sales Order authorizes the installation of production passenger seats in 320 aircraft No. 4 as soon as possible.

Eld: 1t

og No. 3342 2950

D. H. Digges Munager of Commercial Corprects

175~

Revised to cancel.

SALES ORDER

Date:

10 November 1959

Sold to:

Convair

SO No:

880-0-172

A Division of General Dynamics Corporation

San Diego 12, California

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT - DELTA

CONVAIR 880

(1) This Sales Order authorizes a demonstration flight for Mr. McBride, Base Chief Pilot, Mr. Rarich, Pilot, Mr. Morgan, Flight Engineer, on 10 November 1959.

RLW:dm

Log No. 2881

D. H. Digges

Manager of Commercial Contracts

CONVAIR - SD

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation
San Diego 12, California

Date: 6 November 1959

SO No: 880-0-171

A:U No: 141-4
Acct No: 1103-2

DEMONSTRATION FLIGHT = SWISSAIR CONVAIR 880

- (1) This Sales Order authorises a demonstration flight for ten (10) members of Swissair's Board of Directors on Saturday, November 14, at approximately 10:00 A.M.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein 6 November 1959.
- (3) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.
- (4) Flight to be made im Airplane No. 4 only, and im such a manner to desure the maximum safety of this party.

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PROJECT

SPEC.

GROUP

HBD/he ()

Log No.2914

Dodingon

D. H. Digges Manager of Commercial Contracts

SALES ORDER

"Revised: 10 November 1959 Date: 6 November 1959

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-170

Reference:

(a) Memo, R. G. Monsees to E. L. McDonald dated 4 November 1959

WO Nos 2662

SAN DEEGO DIVISION ASSISTANCE TO DEPT. 1-98

- (1) Pursuant to Reference (a), this Sales Order authorizes the San Diego Division, Dept. 3. to furnish 500 pieces of Tensile Shear Finger Panel (MIL-A-5090B) to General Office Dept. 1-98.
- (2) The work authorized by this Sales Order is not to exceed \$139.00. All costs accumulated in connection with this Sales Order are to be transferred to General OfficeAccount 210-4 by Inter-Division Invoice.

HBD/he

"Revised to Change Para (1),

Log No. 2880 2912

HADuchworth.

for D. H. Digges Manager of Commercial Contracts

SALES ORDER

Sold to:

Convair, a Division of General

Dynamics Corporation

Dutes

4 November 1959

San Diego 12, California

SO No:

880-0-169

PRevised 10 November 1959

Referances

(a) Memo, C. G. Wolcott to D. H. Digges

WO Nos 1103-2

dated 4 November 1959

ALASKA AIRLINES INTERIOR COLOR AND FABRIC PRESENTATION

- (1) In accordance with reference (a), this Sales Order authorizes Engineering Department to preceed with the preparation of an interior color and trim presentation to Alaska Airlines This presentation should be based on the TWA Model 22 interfer configuration and should be available to the customer no later then 13 November 1959.
- (2) Since time is of the easence the Alaska interior color and fabric presentation will be acceptable if prepared on an informal basis. However, it is essential that two separate color schemes be made available to Alaska Airlines by the foregoing specified date.

no more than 200 hours for the task described above.

RECEIVED

NOV 1 2'59

- PROJL P SPEC GROUP
- (4) This Sales Order is being revised for the purpose of authorizing Engineering Department an additional 40 hours to prepare renderings covering suggested exterior color and markings for presentation to Alaska Airlines 16 November 1959.

This Sales Order authorizes Engineering Department to expend

(3)

Manager of Commercial Costracta

*Revised to add paragraph (4)

Revised: 6 November 1959

Jalo Lui Gentale

A Division of General Dynamics Composation

Gan Rege 12, California

So No. 880-0-166

Hererande .a Meno dated 29 Optober 1959, R. G. Monages HO No : 1447 1697

SAN DIEGO DIVISION ASSISTANCE TO DEPT. 1-97

- (1) Fursiant to Reference (a), this Salos Order authorizes the San Diego Division, inglateding Electronics Hemufacturing Dept. to essist General Office, Dept. 197. San Diego Engineering Dept. 7 will perform work in conjunction with an agreement between Mr. R. C. Monages of General Office and Mr. S. Regers of the Diego Engineering. This Salos Order authorizes San Diego Division Dept. 7 to provide augineering design, construct a prototype model, test, evaluate, propare engineering drawings and specifications for a commercial devices for converting data on a magnetic or punch tape to a graphical representation.
- The work authorized by this Sales Order is not to exceed 600 direct labor hours. Any material used in connection with the work authorized by this Sales Order is not be expedied by General Office Dept. 1-97. All costs assumulated in connection with this work are to be transferred to General Office Account No. 208 by Inter-
- (3) Dapt. 7 is authorized to expend as additional 250 direct labor hours on the

Ellifaa

Revised to change W.O. No.

Log be 413

And dutter

for D. R. Digges Hamager of Commercial Contracts

*CANCELED 1/10/61

COLVAIR 50

Sold to Federal Arcation Agency

PRevised 5 November 1959

SO Mot 880.0 161

E. R. Overain dated

WC No. 24452 30625

26 October 1959

(b) to C. Z. Cormer (Commercial Contracts) 17 Coreber 1959

GROUND SCHOOL AND VLEGHT TRADBING FOR FAA PERSONNEL

- (1) Based on the proposal racte to reference (a) and verbal accentings
 thereof in reference (b). Fordertion Flight Department is a consistent
 to conduct ground action traceing for the sir carrier flight or maintenance inspectors and five or at a ser partle; maintenance inspectors and
 thight training to the extent of 10 hours for type-rating on Convert 880
 accordit for six sir carrier flight operations image tors
- (2) I wo air carrier flight operations inspectors and possibly one or two six carrier maintenance inspectors will arrive San Diego.

 2 November 1959 to begin such trabung. Other above designated personnel to fullow in succeeding correst vaniary and February 1960.
- (3) FAA is forwarding a Contract to provide payment for above training parament to relarance (a).

FOR ACCOUNTING DEPARTMENT ONLY

Pursuant to paragraph (3) above, the total amount payable for this ground school and flight training is \$65, 398, 00.

2600

D. H. Digget

Manager of Commercial Costracts

Revised to correct WO number

** CANCELED 1/10/61 see sales order 880-0-242

Dec 105 287

SALES ORDER

Sold to: Convair

Date: 23 Oct 1959

A Division of General Dynamics Corp.

Date. 23 Oct 1737

San Diego 12, Calif.

SO No.: 880-0-164

AWO No. 141-4

Acct. No: 1103-2

DEMONSTRATION FLIGHT - MODEL 880

- 1. This Sales Order authorizes a demonstration flight for Mr. Roger Zahn, Deputy to the Vice President of Swissair's Equipment and Planning Activity and Mr. Robert F. Six, President of Continental Airlines, on 26 October 1959.
- 2. This demonstration flight has been approved by A. C. Esenwein on 23 October 1959.
- 3. All costs incurred in connection with this demonstration flight are to be charged to account number referred to above.

HBD/rm

Pudlan H. Diagon

Dudley H. Digges
Manager of Commercial Contracts

BRavised: 22 Cotober 1959

Log No. 1611 1883 2667 2763

Structual at electrical provisions we have not the true Fig. tion of a three cell, can work on tent to I have

and the strength charles a complex sylve at the releast

(4) For record purposes only -- no further

activities authorized under this Sales Order.

"Revised 22 October 1959, to CANCEL, per Para. (4).

SALES ORDER

Sold to: Convair

DATE: 14 October 1959 SO No: 880-0-162

A Division of General Dynamics Corporation San Diego 12, California

AWO No: 141-4

Acota No:1103-2

DEMONSTRATION FLIGHT -JAL

CONVAIR-880

- (1) This Sales Order authorizes a demonstration flight for Captain Morita, Chief of Operations (JAL) and Captain Odagiri (JAL) on October 15 at 10 A.M.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein 14 October 1959.
- (3) All costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

HBD:hs

Log No. 2665

for D. H. Digges

Manager of Commercial Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

Date: 14 October 1959

San Diego 12, California

50 No: 880-0-161

Reference:

Memo, R. G. Monsees to E. L. McDonald dated 13 October 1959 (a)

WO No: 1697

TESTS ON SHOCK OVERLOAD INDICATORS

- Pursuant to Reference (a), this Sales Order authorizes Engineering Dynamics Lab to assist General Office Department 1-97 in making tests on shock overload indicators, utilizing Engineering's centrifuge and related equipment. The tests are to be performed in accordance with a verbal agreement between Dr. E. E. Muehlner of Department 1-97 and Mr. Merle Brady of Engineering Dynamics Lab., Department 6-38.
- (2) The work authorized hereunder shall not exceed twenty (20) man-hours. All costs accumulated in connection with these tests are to be transferred to General Office Account No. 208 by Inter-Division invoice.

ELM/he

Log No. 2661

for D. H. Digges Manager of Commercial Contracts

SALES ORDER



Sold to:

Convair

Date: 12 October 1959

A Division of General Dynamics Corporation San Diego 12, California

SO No: 880-0-160

Reference: (a) Memo, R. G. Monsees to E. L. McDonald

WO No: 1662

dated 9 October 1959

FLEXURAL, TENSION AND COMPRESSION TESTS

- (1) Pursuant to Reference (a), this Sales Order authorizes Engineering Material and Processes Lab to perform flexural, tension and compression tests for General Office Dept. 1-98. Test specimens are to be supplied by Dept. 1-98, and all tests are to be in accordance with a verbal agreement on 5 October 1959 between Mr. W. M. Parker of Materials and Processes Lab, Dept. 6-161 and Mr. Ray Hooker, Dept. 1-98.
- (2) The work authorized hereunder shall not exceed thirty-five (35) hours. All costs in connection with the above are to be accumulated under Work Order 1662 and Accounting Department is requested to transfer such costs to General Office Account No. 209 by interdivision invoice procedures.

RECEIVED

NCT 15 '59

PROJECT SPEC. GROUP

ELM/he

Log No. 2639

for D. H. Digges

Manager of Commercial Contracts

*Revised: 9 October 1959

SCHLER-SD

Convada

SO Not

ATEL 7 Cotober 195

A Division of General Dynamics Comporation San Diego 12, Delifornia

WO Ho: 30,000 Series

Terference t

(a) Sales Origa 880-0:158 dated 7 October 1959.

(b) B. F. Coggan Menn for the Record dated 14 September 1959.

LANUFACTURING OF ONE ADDITIONAL 22-1 AIRCHAFT

- (1) In accordance with Reference (a) Sales Order and under Reference (b) year the first of the Modal 22-1 alreaft has been diverted for use in contention with the certification program for Model 22-1 eiroraft. This Sales Order authorizes the release and manufacturing of one additional eiroraft which is to be completed in accordance with the Righes Tool Company Detail Specification 2D-22-002 for delivery to the sustance in September 1960.
- (2) The sireraft to be manufactured hereunder in to be complete in every respect including all changes which have been authorized for incorporation complete interior, etc.

*Revised to change Para. (1).

-- 2622

Andly N. d.

D. H. Digges Hanager of Camparcial Contracts

*Ravised: 9 October 1959

A Division of General Dynamics Corporation

Reference: (a) B. F. Coggan Meno for the Record dated 14 September 1959

WO No: 30,000 Series .

MODIFICATION OF 880 AIRCRAFT 22-1 SHIP NO. 1

- (1) This Sales Order is issued to authorize all departments concerned to proceed with the design, release, and meanfacture or modifications required to permit medification of the Ship No. 1, Version 22-1 alregaft for use in certification of the Capital version knew and 22-//3 (For purposes of alarification the Model 22M previously discussed will be manufactured for Capital as 22-//3 The program to accomplish the foregoing is outlined in Reference (a) and the following ere the principal modifications in question:
 - (1) Incorporate fully operable leading edge alete and tail akid.

(2) Install Model 30-6 vertical tail together with power boost muder.

(3) Incorporate revised wheels, brakes and tires as necessary.

(4) Incorporate Model 30 proportional anti-sich systems.

- (5) Incorporate other Capital peculiar changes which must be included in the FAA certification program in order to obtain a ticket by October 1960. Under this program the producthem aircraft, when delivered to Capital, shall be certificated to carry passengers using the prior Model 22 (TWA and DAL) license and weights by excluding use of the leading edge slate. Further, the fully certificated 22-/13 aircraft with fully operable slats and at full specification design weights in to be curtificated by the and of December 1960.
- (2) Someduling of this program is to be in accordance with Reference (a) which contains the following pertinent information:
 - Bandix Collins equipment, if required, will be available for mothup purposes by February 1960 with the first flight article by April 1960.

Wheels and brakes (Bendix) to be available April 1960

(e) Modification of Ship No. 1, 22=1, to start April 1760 for laiding edgs stats, radior and higher weights (Based on 3) March 1960 Learn of the aircraft)

The first flight after modification is scheduled for 1 July 1960. Partial, ticket using prior Fedel 22 handbook scheduled for last

week in Catober 1960.

Full ticket to be obtained during December 1960.

Physicson to observe Fora, (1) and ... 5) under Para. (1).

Log No.2602 2623 Manager of Commercial Contracts

C O H V A I R
A Division of General Dynamics Corporation
(San Diego)

CAPITAL MINIFEES

9 October 1959

Revised 5 November 1959
Revised 17 November 1959

No. 2 Model. 22-3

Referenc :

- (a) S. O. 880-0-158 dated 7 October 1959
- (b) S. O. 880-3-1 dated 8 October 1959 (c) CAL Minutes #1 dated 8 October 1959

MODIFICATION OF 880 AIRCRAFT 22-1 SHIP NO. 1

The Reference (a) Sales Order is issued to authorize all departments concerned to proceed with the design, release, and manufacture or modifications required to permit modification of the Ship No. 1, Version 22-1 aircraft for use in certification of the Capital version known as 22-3. The program to accomplish the foregoing is cutlined below:

- 1. 1) Incorporate fully operable leading edge slats and tail skid.
 - 2) Install Model 30-6 vertical tail together with power boost rudder.
 - 3) Incorporate revised wheels, brake and tires as necessary.
 - 4) Incorporate Model 30 proportional anti-skid systems.
 - Incorporate other Capital peculiar changes which must be included in the FAA certification program in order to obtain a ticket by Oct. 1960. Under this program the production aircraft, when delivered to Capital, shall be certificated to carry passengers using the prior Model 22 (TWA and DAL) license and weights by excluding use of the leading edge slats. Further, the fully certificated 22-3 aircraft with fully operable slats and at full specification design weights is to be certificated by the end of December 1960.
- 2. Scheduling of this program shall give consideration to the following pertinent information:
 - a) Bendix Collins equipment, if required, will be available for mock-up purposes by Feb. 1960 with the first flight article by April 1960.
 - b) Wheels and Brakes (Bendix) to be available April 1960.
 - e) Modification of Ship No. 1, 22-1, to start April 1960 for leading edge slats, rudder and higher weights (Based on 31 March 1960 layup of the aircraft).
 - d) The first flight after modification is scheduled for 1 July 1960.
 - e) Partial ticket using prior Mcdel 22 handbook scheduled for last week in Oct. 1950.
 - f) Full ticket to be obtained during December 1960.
- 3. All Engineering Information is to be released into Ship #1, Version 22-1 COR numbers have been assigned to this modification and shall be used the separately identify this task. Modification type engineering shall be used wherever possible.

Provisional ticket to be obtained by October 31, 1960 for pilot training operation

Partial ticket for operation to WA-DAL Manuals by December 1, 1960.

mill ticket by December 31, 1960.

J. T. Ready, Jr.
Project Engineer 6-115

JTR: JMC: is

Sold to:

SALES ORDER

Havised: 7 October 1959

Capital Airlines, inc. 5 October 1959 National Airport

Washington, D. C. SO No: 880-0-157

Reference: (a) Convair TWX, W. G. Evans WO No: 30 000 Series

to R. L. Stoddard, dated

5 October 1959

SALE OF SEVEN (?) MODEL 22M ARCRAFT TO CAPITAL AIRLINES

(1) This beles Order provides authority for the manufacture of seven (7) Convair 180 aircraft for Capital Airlines. These aircraft ar to be manufactused in accordance with Detail Specification Report No. ZD-22-001 Revision no. 11 dated 24 April 1959 together with Addensim Vi dated 1 October 1959. Said aircraft are scheduled for delivery as follows:

Month of Delivery	Number of Aircraft
October N60	1
November 1960	2
December 1968	1
January 1961	2
February 1961	1

- (2) This Sales Order authorizes and departments concerned to proceed as requested with the decign, release and manufacture of seven (7) Convair 880 aircraft in accordance with provisions of paragraph (1) above.
- 3) Material Department's requested and authorised to make immediate procurement of all long lead time items required to meet the schedule described in papagraph (1) and the purchase order release for 40 G E. engines in accordance with G.E. Specification No. E723H under the terms and conditions outlined in the referenced message.
 - This Sees Order will be revised to set out detailed specified equirements of the executed Perchase Agreement and specific changes that have occured systement to preparation of Addendum VI dated I October 1959.

Cancoled and superseced by SO No. 880-20-1.

2595

Widta

D. H. Digges

Manager of Commercial Contracts

CONVAIR SAN DIEGO

CANCELED 7 OCTOBER 1959 Date 1 October 1959

Convair

A Division of General Dynamics Corporation

SO No 880 = 0 = 156

San Diego 12. California

WO No: 30,000 Series

MANUFACTURE OF TEN (10) MODEL 22M AIRCRAFT

- Il This Sales Order authorizes all concerned to proceed with the engineering and properement of long lead time material required to support an earliest possible delivery of a Model 2214, with slatted wings.
- 2) Expenditures under this Sales Order are not to exceed \$95,000 and this authorization expires in thirty (30) days unless extended by a revision thereto.
- (i) For information of those concerned, this Sales Order is issued in expectation of the sale and manufacture of not less than ten (10) Model 22M aircraft.
- Assumes G. E. vall cover engine, reverser and suppressor risk for therry (10) days on their own cognizance.

Lag No. 2596

Canceled and supermeded by Sales Order 880-0-158 dtd 10/7/59 D. H. Digges

Manager of Commercial Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California SO Nos 880-0-155

AWO No: 141-4 Acct. No: 1103-2

DEMONSTRATION FLIGHT - LAW (VENEZUELA)

CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Mr. L. Correa, President, Capt. Bush, Capt. Revis, and Capt. Schemel of LAV on or about 22 September 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein en 18 September 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charges to the account number referred to above.

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HBDsde

Log No 2586

Hospinhwalk.

for D. H. Digges Manager of Commercial Contracts

THE Filganos 6-122

Sold to: Convair

A Division of General Dynamics Corporation San Diego 12, California SALES ORDER

SO Nos 880-0-154

AWO No: 141-4 Acct.No: 1103-2

DEMONSTRATION FLIGHT - CAL

CONVAIR-880

- (1) This Sales Order authorizes a demonstration flight for Mr. Robert Six, President, Mr. Don Wilson, Assistant Vice President, Operations, and Jack Weiler, Director of Flight Standards for Continental Air Lines on or about 25 September 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein 18 September 1959
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

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HBD:de

Log No. 2504

Por Do Ho Digges

for Do Ho Digges Manager of Commercial Contracts

RECEIVED

SEP 25 '59

PROJECT SPEC. GROUP

Sales Order

Sold to 8 Convair
A Division of General Dynamics Corporation
Sam Diego 12, California

SO No: 880-0-153

AWO Nos 141-4 Acct. Nos 1103-2

DEMONSTRATION FLIGHT - KIM

CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Mr. Fritz Besancom and Mr. Ron George of KIM on or about 23 September 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein 18 September 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the secount number referred to above.

algo

HBDsde

Log No. 2484

11792 whoold.

for D. H. Digges Manager of Commercial Contracts

SALES URDER

Sold to: Convair

A Fivision of General Dynamics Corporation San Diego 12, California SO No: 880-0-152

AWO Nos 141-4 Acct. Nos 1103-2

DEMONSTRATION FLIGHT - QUANTAS EMPIRE AIRWAYS LTD.

CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Capt. G. U. Allan, Deputy Managing Director and Mr. Ron Yates of Quantas Empira Airways Ltd. on or about 23 September 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein 18 September 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

aler

HBD:de

Log No. 2485

for Do Ho Digges

Manager of Commercial Contracts

SALES ORDER

Sold tos Convair

A Division of General Dynamics Corporation San Diego 12, California SO Nos 880-0-151

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT - TWA

CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Gordon Granger, Ray Rowe, Russ Rourke form Parmet, Jack Southard and Dale Beebe TVA flight personnel on or about 22 September 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein on 18 September 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

ale

HBDade

Log No. 2492

14m2 whole

for D. H. Digges Manager of Commercial Contracts

SALES ORDER

Sold to: Convair,

A Division of General Dynamics Corporation

Date: 15 September 1959

San Diego 12, California

SO No: 880-0-150

AWO No: 141-4

Acat No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- AIR TRAFT #1 (1) This Sales Order a therizes a demonstration flight for Mesers. Gordon Granger, System Director Flight Research and Development and Jack LeChaire, Assistant to Director Flight Research and Development, TWA, on or about 21 September 1959
- This demonstration flight has been approved by Mr. A. C. Esenwein 15 September 1959.
- All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referenced above.

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NAME.	
W	
V	

HBD/hc

for D. H. Digges

Hanager of Commercial Contracts

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

Date: 14 September 1959

San Diego 12, California

SO No: 880-0-149

AWO No: 141-4 Acct No: 1103-2

DEMONSTRATION FLIGHT - EASTERN AIR LINES CONVAIR 880

- (1) This Sales Order authorizes a demonstration flight for Charles Froesch, Vice President, Engineering, Ambrose Chabot, Vice President, Engineering & Maintenance and W. R. Robinson, Eastern's Representative at Douglas on or about 16 September 1959.
- This demonstration flight has been approved by Mr. A. C. Esenwein 14 September 1959。
- All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referred to above.

will HBD/hs

Log No. 2440

for D. H. Digges Manager of Commercial Contracts

SALES ORDER

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Sold to:

A Division of General Dynamics Corporation

San Diego 12, California

Date: 8 September 1959

50 No: 880-0-148

AWO No: 141-4 Acct No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight for Mr. J. A. Herlihy, Sr. Vice Pres. - Engineering & Maintenance, United Air Lines, on 9 September 1959。
- (2)This demonstration flight has been approved by Mr. A. C. Esenwein 8 September
- All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referenced above

HBD/he

Log No. 2362

for D. H. Digges Manager of Commercial Contracts

9 '59

PROJECT SPEC. GROUP

AL . DE.

Sold tos Convair,

Lonvals, A Divisis: of Canaral Dynamics Corporation

Sar lege 12, California

Dates 2 September 1959

SO No: 880-0-147

AWO No: 141-4 Agut No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (A) This Sales Order authorizes a demonstration flight for Mouses. J. F. Nysus, Mgr. Flight Equipment Development, Delta Airlines. C. J. May. Delta Airlines Representative, and R. L. Flume of Brankff, G. Graves and G. Wolcott of Convair.
- (2) This demonstration flight has been approved by Mr. A. G. Esenvein on a non-interference basis on 2 September 1959.
- (3) All costs, if any, additive to normal flight test earts incurred in consection with this demonstration flight are to be charged to the assaunt number referred to above.

ass

HBD/og

Log. No., 2320

for Thomas B. Esstland, Jr. Asting Manager of Commercial Contracts

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SEP 8 '59

PROJECT SPLC. GROUP

SALES ORDER

Revised: 2 September 1959

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 28 August 1959

SO No: 880-0-146

AWO No: 141-4 Acct No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight for Messrs. J. L Rood, Director of Flight, TCA, and Herbert Hobson, Assistant Director of Flight, on 3 September 1939, and Mr. W. Reid, Pilot for TCA.
- (2) This demonstration flight has been approved by Mr. A. C. Esenwein 31 August 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referenced above.

HED/hs
Revised 1 9/2/59 to add to Para. (1)

for D. H. Digges Manager of Commercial Contracts SEP 3 '59

PHOJECT SPEC, GROUP

SALES ORDER

Sold to: Convair,

A Division of General Dynamics Corporation

San Diego 12, California

Date: 28 August 1959

SO No: 880=0-14,5

AWO No: 141-4 Acet No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight for Dr. Ahja, Director of Civil Air Aviation for Indonesia on September 1, 1959.
- (2) This demonstration flight has been approved by Mr. A. C. Essuwein 31 August 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referenced above.

RECL

SEP 1 '59

SPSC. GROUP

for D. H. Dieges

Manager of Commercial Contracts

HEDANG

SALES ORDER

Sold to:

Convair, A Division of General Dynamics

Corporation

San Diego 12, California

Date:

17 August 1959

SO No:

880-0-143

AWO No:

141-4

Acct. No:

1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight for Hessra. Machado, Vice-President-Operations and Fritz, Consultant for Hawaiian Airlines on 18 or 19 August 1959. Also authorized are Messra. Breindenstein and George of KLM.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test progrem and was approved by Mr. A.C. Esenwein on 14 August 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the account number referenced above.

RLW:dm

Log No. 2178

A. Wintruge

for D.H. Digges

Manager of Commercial Contracts

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SPEC. GROUF

W. C. Fitzsimons

CONVAIR-SAN DIEGO

SALES ORDER

6-123

Sold to: Convair, A Division of General Dynamics

Date:

13 August 1959

Corporation

San Diego 12, California

50 No:

880-0-142

ANO No: 141-4 Acct. No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight for Mr. Richard Flume, Braniff Airways, Inc. Assistant Chief Engineer on Convair 880 aircraft Hfg. No. 4 on 14 August 1959.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program and was approved by Mr. A.C. Esenwein on 13 August 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the Acct. No. referenced above.

BUM: de

for D. H. Digges

Manager - Commercial Contracts

Log Ho: 2160

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AUG 18'59

SPEC. GROUP

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-140

Date: 11 August 1959

Reference:

(a) Memo, R. G. Monsees to E. L. McDonald

WO No: 1662

dated 6 August 1959

INFRARED STUDIES OF COATINGS

- (1) Pursuant to Reference (a), this Sales Order authorises Engineering Material and Process Lab to infrared studies of coatings to be supplied by General Office Department 1-98. These tests are to be conducted in accordance with a verbal agreement between Mr. F. M. Graber of Materials and Progess Lab, Department 6-161, and Dr. R. G. Rice, Department 1-98.
- The work authorized hereunder shall not exceed one hundred (100) hours. All costs in connection with the above are to be accumulated under Work Order 1662 and Assounting Department is requested to transfer such costs to General Office Account No. 209 by interdivision invoice presedures.

ELM/no

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O. H. Digges Manager of Commercial Contracts

Log Ro 2132

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

Date: 11 August 1959

San Diego 12, California

SO No: 880-0-139

Reference:

(a) Memo, R. G. Monsees to E. L. McDonald WO No: 1662 dated 6 August 1959

EVALUATION OF MATERIAL SAMPLES

- (1) Pursuant to Reference (a), this Sales Order authorises Engineering Material and Process lab to test and evaluate samples of material to be supplied by General Office Department 1-98. Such tests are to be conducted in accordance with a verbal agreement between Mr. J. C. George of Materials and Process Lab, Department 6-161, and Dr. R. G. Rice, Department 1-98.
- The work authorized hereunder shall not exceed one hundred twenty (120) hours. All costs in connection with the above are to be agrumulated under Work Order 1662 and Accounting Department is requested to transfer such costs to General Office Account No. 209 by interdivision invoice procedures.

ELM/he

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D. H. Digges

Manager of Commercial Contracts

Log No. 213%

COMVAIR-SD

SALES ORDER

Sold to:

Convair

Date:

5 August 1959

A Division of General Dynamics Corporation San Diego, California

SO No:

880-0-138

Reference:

(a) Memo, D.H. Digges to R.L. Wintringer

dated 4 August 1959

WO No:

1103-2

MODEL 880

DESIGN AND CONSTRUCTION OF ONE TRIPLE WOODEN MOCKUP SEAT

Western Airlines

- (1) This Sales Order authorizes Engineering and the Factory to design and construct one triple wooden mockup seat to be placed in the Mockup Building 69 for demonstration for Western Airlines on 20 August 1959.
- (2) Costs shall be charged to Commercial Sales Department and limited to Bight Hundred Thirty-Two Dollars (\$832) broken down into sixteen (16) hours for Engineering and One Hundred (100) hours for tooling.
- (3) Construction of the sest will be postponed until drawings are approved by Western Airlines.

CG:cm

D. H. Digges

Manager of Commercial Contracts

Tel I Francis

CONVAIR-SD

Sold to: Convair, A Division of General Dynamics Corporation San Diego 12, California SALES ORDER

RECEIVED

Date: 5 August 1959

AUG 7 '59

SO Nos 880-0-137

PROJECT SPEC. GROU

AWO No: 141-4 Acct. No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorizes a demonstration flight to Mircuar Maval Air Station on the veckend of 12 September 1959 in order to display the airplans during the Fiesta Del Pacifico open house.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program and was approved by Mr. A. C. Esenwein on 5 August 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the Acct. No. referenced above.

SJH 8d@

for D. AL Digges

Manager-Commercial Contracts

Sold to: Convair, A Division of General Dynamics Corporation Son Diego 12, California SALES ORDER

Date: 5 August 1959

SO No: 880-0-136

AWO No: 141-4 Acct. No: 1103-2

CONVAIR 880 DEMONSTRATION FLIGHT

- (1) This Sales Order authorises a demonstration flight for Mr. S. R. Shatter, Western Air Lines Vice President Operations and Western Air Lines pilots on Convair 880 aircraft Mfg. No. 1 on 20 August 1959.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program and was approved by Mr. A. C. Esenwein on 5 August 1959.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this demonstration flight are to be charged to the Acet. No. referenced above.

SJH:de

for D. H. Digges

Manager - Commercial Contracts

Sold to: Convair, A Division of

General Dynamics Corporation San Diego 12, California SALES ORDER

Date: 14 July 1959

SO No: 880-0-135

AWO No: 141-4 Acct.No:1103-2

MODEL 880 DEMONSTRATION FLIGHTS

- (1) This Sales Order is issued to authorize demonstration flight for Mr. D. W. Nyrop and two Northwest pilots on the Model 880 aircraft on 21 July 1959.
- (2) The demonstration flight is to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this sales order are to be charged to Acct. No. 1103-2.

ElMade

D. H. Digges

Manager - Commercial Contracts

CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair, A Division of General Dynamics Corporation

San Diego 12, California

Detes

9 July 1959

SO Not

880-0-133

AWO No:

141-4

Agot. No: 1103-2

MODEL 880 DEMONSTRATION FLIGHTS

- (1) This Sales Order is issued to authorise demonstration flights for SAS and Swissair pilots on the Model 880 aircraft during the week of 27 July through 31 July 1959.
- (2) These demonstration flights are to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in sonnection with this Sales Order are to be charged to Asst. No. 1103-2.

RECEIVED JUL 10'59 PROJECT SPEC. GROUP

Log Nos 1795

D. H. Digges Manager of Commorsial Contrasts

ACCOUNTING SALES ORDER

Sold to:

REAL - Transportes Aereos S/A

Rua Conselheiro Crispiniano

379 - 88 Andar

Sao Paulo, Brazil

Date: 29 June 1959

SO No: 880-0-132

WO No: 30,000 Series

Reference: (a) Memo, C. L. Meador to D. H. Digges

dated 26 June 1959

Purchase Agreement - REAL 880 dated 12 August 1957

ALLOCATION OF PAYMENT - REAL 880 ACCOUNT

In accordance with Reference (a), this Sales Order authorizes Accounting Department to allocate advance payments received from REAL pursuant to Reference (b) as follows:

Total Amount Received Applied REAL 860 Advance Payment Account	\$2,551,066.60 <u>1,913,299.95</u>
Balance	637,766,65
Less Amount Returned to REAL on 25 February 1959	50,000,00
Balance to be Applied to REAL 440 Advance Payment Account	587,766.6 5

RECEIVED JUL 10'59 PROJECT SPEC. GROUP

EIM/ne

Log No. 1701

Manager of Commercial Contracts

CONVAIR-SAN DIEGO

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corp.

San Diego 12, California

Date: 29 June 1959

SO No: 880-0-131

AWO No: 141-4 Acct. No.1103-2

MODEL 880 DEMONSTRATION FLIGHT

- (1) This Sales Order is issued to authorize a demonstration ride on the Model 880 airplane for Mr. Herb Fisher, Consultant to the New York Port Authority, on/or about 30 June 1959.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this sales order are to be charged to Acct. No. 1103-2.

HD:de ov/wil

Log No. 1713

D. H. Digges

Manager of Commercial ContracRECEIVED

JUL 10'59

PROJECT SPEC. GROUP

SALES ORDER

Sold tos Convair Date: 26 June 1959

A Division of General Dynamics Corporation

San Diego 12, California

SO Nos 880=0-130

Reference: (a) Sales Order 880-0-105

WO No: 30,000 Series

Sales Order 880-0-121 Sales Order 880-14-1

DESIGN SECUENCE AND FLIGHT TEST AIRCRAFT - MODEL 31

- (1) THIS SALES ORDER IS ISSUED FOR INFORMATION PURPOSES ONLY to reflect the design sequence of the Model 31 and to designate the Aircraft which will be utilized in the Model 31 flight test program. The design sequence will be as follows:
 - 1. SwissAir/SAS
 - 2. CAT
 - 3. REAL
- (2) Upon conclusion of negotiations now being conducted with the customer, authorisation will be issued to use one (1) of the SwissAir/SAS option airplanes as a flight test airplane at which time referenced Sales Orders will be revised accordingly.

RECEIVED JUN 30'59 PROJECT SPEC. GROUP

ElH/he

Log No. 1697

D. H. Digges Manager of Commercial Contracts CONVAIR-SAN DIEGO

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 25 June 1959

SO Nos 880-0-129

WO No: 30,000 Series

PREPARATION OF NEW

MODEL 22 SPECIFICATION

(1) Engineering Department is authorized to prepare a Detail Specification for Alaska Airlines, Inc. The Specification, which is to be numbered ZD-22=007 dated 15 June 1959, will cover an airplane identical to Hughes Tool Company Model 22 and the Specification will be the same with the exception that first customer approval items and guarantees will be emitted.

SJH:de

Log No. 1696

Do Ho Diggos Manager - Commercial Contracts

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PROJECT SPEC. GROUT CONVAIR-SAN DIEGO

Sold to: Convair

A Division of General Dynamics Corp.

San Diego 13, California

SALES ORDER

Date: 25 June 1959

SO No. 880-0-128

AWO No: 141-4 Acct. No:1103-2

MODEL 880 DEMONSTRATION FLIGHT

- (1) This Sales Order is issued to authorize a demonstration ride on the Model 880 airplane for P. Ball, DAL Chief Pilot, and L. McBride, Chief Base Pilot, on 2 July 1959.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this sales order are to be charged to Acot. No. 1103-2.

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JUL 10'59

PROJECT SPEC. GROUP

SJH:de

Log No. 1712

Manager Commercial Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

en e

Date: 16 June 1959

San Diego 12, California

SO No: 880-0-127

AWC No: 141-4 Acct No: 1103-2

MODEL 880 DEMONSTRATION FLIGHT

- (1) This Sales Order is issued to authorize a demonstration ride on the Model 880 airplane for Mr. William Roxborough, CPA, on 18 June 1959, and Bert Ritchie General Manager of Quantas.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this Sales Order are to be charged to Account No. 1103-2.

My

RBD/ha

12 D. H. Digges

Manager of Commercial Contracts

Log No. 1630



SALES ORDER

Convair Sold to:

A Division of General Dynamics Corporation

Date:

19 June 1959

San Diego 12, California

SO No:

880-0-126

Reference:

(a) Memo, C. W. Greaves to H. B. Duckworth dated 19 June 1959

ANO No:

6911-002-1

MODEL 880 STATIC DISPLAY

- (1) This Sales Order authorizes static display of an 880 aircraft at North Island during the weekend of 19 June through 21 June 1959. The following Items of work are authorized hereunders
 - 1. Construction of a plexiglas inlet duct cover for one of the engine pais.
 - 2. Transportation of 880 tow bar, signs and rope barrier materials to North Island and from North Island, entailing two round trips with tobtail truck.
 - 3. Labor involved in stationing one Convair employee (either from flight test or field operations) with the aircraft during public display periods, 1.e .--6 p.m. to midnight June 19: 1 p.m. to midnight on June 20 and 1 p.m. to midnight on June 21.

The Naval Air Station will provide security guards for the aircraft throughout the weekend.

The aircraft will terminate a test flight at North Island on the afternoon of 19 June no later than 5 p.m. and will initiate a flight test from North Island on the morning of 21. June, and it is understood that costs in addition to normal flight test costs will not be incurred by Flight Test, Field Operations and Inspacation Departments in connection with this Sales Order. Costs for other work authorized hereunder are limited to \$300,00.

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JUN 25 359

PROJECT SPEC.

HBD/ELM/hg

D. H. Diggea Manager of Commercial Contracts

leg No. 1648

SALES ORDER

Sold to: Convair

Date: 11 June 1959

A Division of General Dynamics Corporation

San Diego, California

SO No: 880-0-124

Reference:

dated 10 June 1959

(a) Memo, R. G. Monsees to E. L. McDonald

WO No: 1662

EVALUATION OF MATERIAL SAMPLES

- (1) Pursuant to Reference (a), this Sales Order authorizes Engineering Material and Processes Lab to test and evaluate samples of material to be supplied by General Office Department 1-98. Such tests are to be conducted in accordance with a verbal agreement on 9 June 1959 between Mr. J. C. George of Materials and Processes Lab, Department 6-161 and Mr. R. G. Rice, Department 1-98.
- (2) The work authorise | hereunder shall not exceed seventy-two (72) hours. All costs in connection with the above are to be accumulated under Work Order 1662 and Accounting Department is requested to transfer such costs to General Office Account No. 209 by interdivision invoice procedures.

RECEIVED

JUN 16'59

PROJECT SPEC. GRCUE

ELM/he

Log No. 1561

Managar of Commercial Contracts

Revised: 15 June 1959

CONVAL - SAN DEEGO

SALES ORNER

Sold to Convair

A Division of General Dynamics Corporation

San Diego -12, California

Inte:

2 June 1959

SO Me:

880-0-123

WO Wo:

141-4

ACCT NO:

1163-2

MODEL 630 DEMONSTRATION FILICET

(1) This Sales Order is issued to authorize a demonstration ride on the Model 380 airplane for the following Air India personnel on // June 1959:

tht [1] Patal table [talended of tale table Mr. Gazadah, Technical Director

- (2) All costs, if any, additive to normal flight test costs incurred in essection with this salas order are to be charged to Acct. No. 1103-2.
- The following personnel are also to be included in the demonstration ride of 16 June 1959:

Gen. Palacios, Spanish Under Secretary for Air

Can. Azcarrage, Director General of INI

Gen. Merrino, Director General of Spanish Civil Aviation

Revised 15 June 1959 to change paragraph (1) and add paragraph Manager of Commercial Contract (3) .

No --- 1586

SALES ORDER

Sold to: Convair Date: 27 May 1959
A Division of General Dynamics Corporation

San Diego 12, California SO No: 880-0-122

Reference: (a) Conference, R. K. Rourks (TWA) and WO No: 30,000 Series

D. H. Digges, 22 May 1959
(b) Memo, Digges to Eastland, dated 5/26/59

ZERO-TIMING CJ805-3 BLOCK 1 ENGINES

- (1) The Furchasing Department is hereby authorized to arrange with General Electric for zero-timing and upgrading 20 CJ805-3 Block 1 engines to Block 1A on the basis of G.E.'s proposal to Convair dated 14 April 1959.
- (2) The Purchasing Department is also authorized to procure the "as new" warranty provided in G.E. 's proposal.

DADM: Pa

Log No: 1403

Manager of Commercial Contracts

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SPEC.

C O N V A I R., A Division of General Dynamics Corporation (San Diego)

No. 90 Model. 22-0

Model 880 Minutes 12 June 1959

Ref. (a). Sales Order 880-0-122 dated 27 May 1959

ZERO-TIMING CJ805-3 BLOCK 1 ENGINES

The Purchasing Department has been authorized, as evidenced by Reference (a) Sales Order, to zero time and upgrade (20) CJ805-3 Block 1 engines to Block 1A on the basis of G. E. s proposal to Convair dated 14 April 1959.

These Minutes issued for information only.

RECEIVED

JUN 17'59

PROJECT SPEC. GROUP

J.//S Bergstrom Project Engineer

6-115

BJS:JML:18

SALES ORDER

Sold to:

Convair

Date:

26 May 1959

Corporation

A Division of General Dynamics

SO No:

880-0-121

San Diego 12, California

WO No:

30,000 Series

Reference:

(a) TWA Sales Order 880-1-2

(b) Delta Airlines Sales Order 880-2-2

(c) American Airlines Sales Order 600-5-1

(d) Swissair Sales Order (e) REAL Sales Order Sales Order 880-0-105

CAT Sales Order 880-15-1

MANUFACTURE OF CONVAIR 880/600 AIRCRAFT

(1) References (a) through (g) authorize the manufacture of Convair 880/600 aircraft for various customers. This Sales Order is issued FOR INFORMATION FURPOSES ONLY to clarify the total number of aircraft to be manufactured. The above referenced sales orders will be revised to reflect the information as indicated below, and establish a seventy-four airplane program as of this date.

TWA MODEL 22-1 AIRCRAFT	TOTAL
MONTH OF DELIVERY N D J F M A M J J A S HUMBER OF AIRCRAFT 1 1 2 2 3 3 4 5 5 3	30
DAL MODEL 22-2 AIRCRAFT	
MONTH OF DELIVERY JFMAMJJAS NUMBER OF AIRCRAFT 1 1 1 1 1 1 3	10
AAL MODEL 30-5 AIRCRAFT 1961 1962	
MONTH OF DELIVERY JJASOND JFMAMJJA NUMBER OF AIRCRAFT 122221 2222221	25
SWISSAIR MODEL 31-13 AIRCRAFT	
MONTH OF DELIVERY 0 N D J NUMBER OF AIRCRAFT 2 1 1	5
REAL MODEL 31-14 ATRORAFT	
MONTH OF DELIVERY N D J F M A M NUMBER OF AIRCRAFT 1 1 1 1**	3

*This is the Model 31-14 flight test aircraft covered by 8.0. 880-0-105 which is scheduled for rehabilitation and delivery to RIAL approximately, May 1961.

Log No. 1498

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

26 May 1959 Data:

SO No: 880-0-121

Reference: See Page One

WO Wo: 30,000 Series

ASIATIC MODEL 31-15 AIRCRAFT

MOMEN OF HELIVERY NUMBER OF AIRCRAFT 1960 HOV. 1

TOTAL

1

74

SJH:da

D. H. Digges

Manager - Commercial Contracts

CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corp.

San Diego 12, California

Date:

13 May 1959

SO No:

880-0-120

AWO No:

141-4

Acet No: 1103-2

MODEL 880 DEMONSPRATION FLIGHT

- (1) This Sales Order is issued to authorize a demonstration ride on the Model 880 airplane for D.W. Nyrup on/or about 14 May 1959.
- (2) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program.
- (3) All costs, if any, additive to normal flight test costs incurred in connection with this sales order are to be charged to Acct. No. 1103-2.

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PROJECT SPEC. GROUP

THOM: was

In D. H. Digges
Manager of Commercial Contracts

Log Sec. 1257

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date:

11 May 1959

SO No:

880-0-119

Acat. No: 141-4

1103-2

MODEL 880 DEMONSTRATION FLIGHT

- (1) This Sales Order is issued to authorize a demonstration ride on the Model 880 airplane for Major General Estes at Edwards Air Force Base on 13 May 1959
- (2) All costs in connection with this Sales Order are to be charged to Acct. No. 141-4 (Acct. No. 1103-2).
- (3) This demonstration flight is to be performed on a non-interference basis with the 880 flight test program.

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PROJECT SPEC. GROUP

FTGibe

Log No: 1208

D. H. Digges

Manager of Commercial Contracts

SALES ORDER

Sold to: CONVAIR

A Division of General Dynamics Corp.

San Diego 12, California

Date: 20 April 1959

S.O. No. 880-0-118

AWO No. 141 4 Acct. No. 1103-2

- 1. This Sales Order is issued to authorize a one-hour demonstration ride on the Model 880 airplane for B/G Glenn E. Birchard, DCS/O, MATS, and Col. Verne Bivins, MATS, on 23 or 24 April 1959.
- 2. All costs in connection with this Sales Order are to be charged to Acct. No. 1103-2, AWO No. 141-4.

ELM:rm

cc: R. L. Bayless

W. W. Fox

P. M. Prophett

R. R. Hoover

Log No. 1039

C. G. Glasgow

Manager of Contracts

Hp 10000

Convair

Sold to:

SALES ORDER

Dates

15 April 1959

SO Nos

880-0-116

ANO No: Acot No.

141-4

MODEL 880

A Division of General Dynamics Corp.

San Diego 12, California

DEMONSTRATION FLIGHT

(1) This Sales Order authorizes Engineering Department to make 830 aircraft no. 3 available at Edwards Air Force Base for evaluation flying by the Jet Transport System Evaluation Team from 15 April 1959 through 19 April 1959. Ten to Twelve hours of flight time are authorized for this purpose.

(2) All costs in connection with this sales order are to be charged to Acct No. 1103-2, AWO No. 141-4.

ELMadm

G. G. Glasgow

Manager of Contracts

Log Non-988

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SALES ORDER

Sold to:

Conveir

A Division of General Dynamics Corp.

3 April 1959

San Djego 12, California

SO No:

Date:

880-0-115

Referance:

(a) Memo, B. Coggan dated 30 March 1959, "Revised Striping for Convair 880

WO Ho: 30,000 Series

and Convair 600 aircraft"

MODEL 880

REVISED MARKINGS NO. 1, 3 AMD 4 880 AIRCRAFT

(1) This Sales Order authorizes the application of exterior markings to the no. 1, 3 and 4 Convair 880 aircraft as set out below.

I. No. 1 Aircraft

- A. Repaint gold stripe thru side window area left and right side of fuselage.
- Paint out "1" aft of pilot's and co-pilot's side window and above sircraft S/N on rear sides of fuselage,
- C. Remove "880" from gold stripe forward of side window area left and right side.
- D. Paint out "Convair" from forward left and right sides of fuselage between cockpit side windows and passenger side windows.
- Paint new vertical tail in accordance with memo from B. Coggan, 30 March 1959.
- F. Letter "GENERAL DYNAMICS" in area aft of L/H fwd. door to #9 vindow above gold stripe per memo from B. Coggan, 30 March 1959.
- G. Paint 880 emblem on outboard side of all 4 pods in gold.

II. No. 3 Aircraft

A. Accomplish task from I b, c, d, f and g above.

No. 4 Aircraft III

A. Accomplish following paint job on no. 4 aircraft.

Accomplish task from I b, c, d, e, f and g.

All concerned are to proceed accordingly.

RECEIVED

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PROJECT SPEC. GROUP

Approved by:

Log No. 822

Manager of Contracts

B. Coguan

SALES ORDER

Sold to:

Convair

Date:

27 March 1959

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-11.4

WO Ho: 1645

REPAIR OF 880 AIRCRAFT NO. 1

MODEL 880

(1) All departments concerned are hereby notified that Work Order No. 1645 has been established for the purpose of accumulating all costs incurred in connection with the repair of 880 aircraft production no. 1.

Mr. da

C. C. Glasgow

Manager of Contracts

Log No. 820

SALES ORDER

Sold to: Convair Date: 17 March 1959

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-113

(a) Memo, Ned Root to T. B. Eastland, Jr. Reference: dated 1.6 March 1959

Acct No: 1103-3 (Special 880

promotion program)

DEMONSTRATION FLIGHT

- (1). This sales order authorizes Experimental Flight Department and Field Operations Denutment to make available a Convair 830 aircraft and necessary flight and ground crews for the purpose of a flight to Las Vegas, Nevada (McCorran Field) on April 11, 1959. Said aircraft is to be at McCarran Field not later than 5:00 P.M. on said date and shall return to San Diego, California on April 150 1959。
- This sales order further authorizes a demonstration flight at Las Vegas not to exceed a total of forty-five (45) minutes.
- Field Operations Department is authorized to furnish the following:

Ten (10) man ground crew at Las Vegas

Ome (1) truck and trailer to be sent from San Diego to Las Vegas

Two (2) station wagons to be sent from San Diego to Las Vegas.

- Fifteen (15) ground personnel to prepare the aircraft on April 10 and 11, 1959 for departure on April 11, 1959 to Las Vegas.
- (4) Costs in connection with the foregoing are to be charged to account No. 1103-3 (Special 880 promotion program) and are to show reference this sales order for purposes of identification.

HBD/IIC

Log No. 694

man Borlenel Manager of Contracts

accounting Soles Order 880-0-102

SALES ORDER

Sold to:

Convair

Date:

12 February 1959

A Division of General Dynamics

Corporation (San Diego)

SO No:

880-0-111

Reference:

(a) AVO, J.W. Cox to T.B. Eastland, Jr. WO No:

30,000 Series

deted 11 February 1959

MODEL 880

TRANSFER OF MATERIAL

- (1) Pursuant to reference (a), this Sales Order authorizes Electronics
 Department (Dept. 170) to withdraw from surplus 440 material available the following items of radio equipment required by Field Operations to activate a portable mobile ground station for use in the 680 flight test program.
 - 2 Radi 52-170 Collins 17L4 VHF Transmitter
 - 2 DY-3 Collins 416N-1 DC Power Supply
 - 2 Radi 52-53 Collins 51R3 VHF Receiver

BIM; de

Log No. 446

C. G. Glasgov

Manager of Contracts

G. Coulsg dated 18 Dec. 198 (c) C. G. Wolantt's mans to Tana keatland, Ir. dated 22 Jans 1959 F.A. Sharp meso to A.W. Abels dated 17 March 1959 (d) J.R. Herbig mano to D.H. Digges dated 1 April 1959 Verbal authorization, J.G. Zevely to H.B. Duckworth (Comercial Contracts) 9 April 1959 (f) Memorandum, C. G. Welcott to D. H. Digges dated October 9, 1959 - subject: Refurbishing 880 mockup CONVAIR 880 MOODEN MOCK-UP - MALITENANCE OF (1) Approved budget for maintenance of the building (9 880 Noon-up expires Il January 1959. Under Reference (a) the Commercial Project Office has submitted an estimate of the cost involved in maintaining said pock-up for the year of 1959. Reference (b) advises that sugget approved has been granted for approximately the amount regulard in accordance with del'arence (a) estimate. (2) This Sales Order advises all concerned that the sum of 140,000 has been allocated for Hullding 69 Wooden Mack-up Maintenance, and in accessance with the entirate provided some refurbishing and repairs are included, but specifically excluded are remodeling of mock-up interior, resevering of seats or dressing up mockup modules. Otherwise, the items in Maneral are as indicated in the listing centained in deference (a). (3) Reference (e) satisfying additional expenditure of \$3844 to cover residuals excluded in paragraph (2) over and above the \$40,000 authorized by this sales order for refurbishing of the 880 sales mochap as established in reference (d). (4) Reference (f) authorises an additional expediture of not more than \$10,000 for refurbishing the interior of the 880 mock-up using materials furnished by Dorothy Draper, Inc. The budget account for this item is 1103-2. Log No. 2302 2638 *Revised to add ref (c)(d)(e) and para (3) Managar of Contracts Revised to add Para. (4), 10/13/59

A Division of General Dynamics Corp.

(a) A. J. savard'u memo to

Rafaregust

Revised: 13 October 1939

*Revised 9 April 1959

SO NATI TEOMOMETRO

WO No: 10,000 serios

CONVAYN-SAN DIEGO

SAMFS CRIMEN

Sold tos Convair, A Division of General

Dynamics Corporation

San Diego 12, California

Rafaremasa (a) Verbal request of C. Slaght to C. J. Datton, 16 January

(b) Mr. C. A. Merryman, Jr. Reference: (Controller, USNAS) to Da H. Diggs, 19 January 1959 WO No. 30,000 Series

Dates to Jameary 1959

"Revised: 19 January 1959

SU No. 880-0-109

MODEL SEC

FLIGHT TEST PROGRAM AT NORTH ISLAND

- (1) Pursuant to reference (a) request, Material Department Purshasing is requested to issue as open Purchase Order in the amount of \$3500°00 3500000 to the United States Navy (North Island) to cover reinbursement for fuel, landing feas and incidentals in commetion with the Model 880 Flight Test Program at North Island.
 - (2) Accounting Department is hereby requested to leave a clerk, payable to the Treasurer of the United States in the amount of fiftheth 63500.00 Said wheak to represent a form of deposit under which promisement of supplies and services listed in Paragraph (1) above will be procureed.
 - (3) Due to the early date on which the 880 Flight Test Program is sekaduled to commence, it is requested that all conserved expedite to the arrigan the issuance of the glove Perchase Order and chack.

Revised 19 January 19, 1959 to add Ref. (b) and correct Paragraphs (1) and (2).

CJDedja

Log No. 440 246

G. Glascew Manager of Contrauts CONVAIR - SAN DIEGO

SALES ORDER

Sold to:

Convair, A Division of General

Date:

A December 1958

Dynamics Corporation

San Diego 12, California

SO NO:

880-0-108

Reference

(a) Memorandum, W.G. Evans to D.H. Digges, WO NO:

30,000 Series

dated 2 December 1958

(b) List of CJ805-3 Engine Spares dated 30 October 1958, revised 25 November 1958 (approved by D.H. Digges, 12/2/58)

MODEL 880

CJ805-3 ENGINE SPARES PROCUREMENT AUTHORIZATION

(1) Fursuant to reference (a), this sales order authorizes Material Department to requisition the immediate procurement of the CJ805-3 engine spares contained in reference (b) list of spares. Such parts are required to support the Model 880 flight test program and will be stocked in the Field Operations (Dept. 300) stock area. Storage and accountability of said parts will be the responsibility of Manufacturing Control (Dept. 192). The parts, upon receipt at Convair, will be delivered directly to the Field Operations stock area and will not be recorded on the Material Department inventory records.

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Inomas Daniland

PROULUT SPEC. GROUP

Log No. 5495

DEC 8'58

"Revised: 24 August 1950 Tux, Eastland from H.L. Curry, Rohr Alreraft, (e) See Page Two Las to decompose test fertilities bet Alexant Largorettes to water. als promount time, to begin thentional tests on Indiate toward (10) position appeal into a T. H. Th. Ch. (20). I and generators (11). The Co. (1). convery has account to encounties, mild terming of the first yours or the Peter to be fillwood to Convite non complet may fee a feet Allow Pully personnel to observe testin to they so nextre. Conveils to notify in a Coutie of Poor Coultry souther many me to when the tests whit he performed.

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PROJECT SPEC. GROUP

dated 9 April 1959

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Compair, & Divisible of Ceneral Desirer, 10 spent 1959
Dynamins Corporation Deliver 27 Colober 19
San Diego L. Oslifornia SD-No. 200 Series

- (e) Memo, Glasgow (Attan: Carothers) from C.B. King, dated 14 August 1959.
- (a) Contain has agreed to accomplish the testing of an additional five (3) units. Accordingly, departments concerned are outhorized to proceed an authorized shows.
- (5) Upon sempletion of subject testing, the supervisor in charge of the functional tests is requested to notify Commercial Contracts Department by semorandum.
- (6) Pursuant to Reference (c) this Sales Order is revised to authorize the Accounting Department to issue invoices to Rohr Aircraft Corporation covering functional testing of the 29 units authorized herein and as called out above.

A Division of General Dynamics Corporation (San Diego)

Mcdel 880 Minutes 29 October 1958

Pege 1 of 2

Davised 21 April 1959

No. 87

R_ference: (a) S.O. 880-0-107 dated 27 October 1958 Revised 10 April 1959 Revised 1

(b) Rohr Purchase Order F-821 23-F

I. FUNCTIONAL TESTING OF CONSTANT SPEED DRIVES AND GENERATORS

- (1) Due to incomplete test facilities Robr Aircraft Corp. is unable, at the present time, to begin functional tests on the first twenty (20) constant speed drives, P.N. 22-02406-1 and generators, P.N. 22-06400-1 necessary for the Model 880 progress.
- (2) Convair has agreed to accomplish said testing of the first twenty coupled units and departments concerned are authorized to proceed in accordance with the following instructions:

First coupled unit: Each successing coupled unit: 40 brs @ 7.50/per hr. 8 hrs 9 7.50/per hr.

- 1. Functional Test shall be conducted in accordance with the following specifications:
 - (a) Convair Specification: Memo Elec 2-879, dated 6/27/58 (b) Convair Specification: Mano Elec 2-906.
- 2. Install same on prime mover and connect to power generator sub-system.
- 3. Sufmit copies of test data and report to hohr.
- 4. Perform functional testing on Constant Speed Daives and Generators per recommended procedures approved by Conveir and Rohr.
- 5. Units to be delivered to Convair as a coupled unit (one constant speed drive and one gamerator).
- 6. Allow Rohr personnel to observe tests if they so desire.
- 7. Convair to notify L.R. Curtis of Robr Quality Control (Ext. 675) when the tests will be performed.
- 8. Questions relating to test procedure should be directed to the buyer.
- 9. After completion of test on each coupled unit, Convair to notify H. L. Curry, Rohr Purchasing, Extension 1111. RECEIVED

IIM Code for stock purposes - It. 1-279-20418 It. 2-279-27153

JUN 3

ACTION: All concerned are authorized to proceed with the above

PROJECT SPEC. GROUP

G O N V A I R A Division of General Dynamics Corporation (Sen Diego)

Model 860 Minutes 29 October 1958

Revised 21 April 1959 Bevised 27 New 1959

Page 2 of 2

No. 87

Gonvair has agreed to accomplish the testing of an additional Aire (5) units. Accordingly, departments concerned are authorized to proceed as outlined above.

Upon completion of subject testing, the supervisor in charge of the functional tests is requested to actify Commercial Contracts Department by memorandrm.

JSB:JMC:is

J/S. Bergskrom Project Engineer 6-115

RECEIVED

JUN 3 '59, 2 - - "

PROJECT SPEC, GROUP

JUN 3 '59

PROJEST SPEC GROUT

F Brand 122
SALFS ORDER

Sold to:

Convair, A Division of General Dynamics Corporation

Sam Diego 12, California

Dates 27 Jetober 1958 Revised: 28 November 1958

Raferenser

(a) Memo D. H. Digges to B. Coggan dated 28 January 1938

SO Nov 880-0-106

(b) Memo D. C. Burrows to B. Coggan

*O No. 90,095 Series

dated 31 January 1958

(c) GPO #57=234 dated 13 November 1957, revised 9 January 1958

GROUND MAINTENANCE TOOL AND TEST FACILITY REPORTS - PREPARATION OF

- (1) This Seles Order cancels and supercades Sales Order No. 880-0-45, dated 5 February 1958, and authorizes Engineering and Customer Service to proceed with the task outlined in Reference (c) with the exception that the manuals to be prepared shall be applicable to all Model 880 operators.
- (2) The following maintenance, overhaul and facility requirement manuals are required:
 - (a) Maintenance and overhaul time period of components.

(b) Overbaul facility requirements.

- (a) Line maintenance facility requirements.
- (3) The above manuals are to be prepared in accordance with Reference (c), Cost Proposal Outline #57-234
- (4) Engineering Support Planning has completed the data cards for Reference (a) manual. This manual will be completed by <u>Customer Service</u>. Copies will be used by the ATA Ground Maintenance and Overhaul Committee for submitted to the CAA. Tentative schedule for submitted to CAA by the ATA Committee is 1 September 1939.
- (5) The (b) and (c) manuals indicated above are to be completed by Engineering-Support Planning by 15 March 1958.
- (7) Contracts Department will be advised when the above manuals have been completed and shipping instructions will be provided at that time. RECEIVED

DEC 2'58

PROJECT SPEC. GROUP

L'He ha

Revised to delete 2nd sentence of Par. 6.

Log No 5230 5440

1 2 Contracts

· Walkin

C O N V A I R A Division of General Dynamics Corporation (San Diego)

No. 89

MODEL 880 MINUTES 31 October 1958

Reference: (a) Sales Order 880-0-106 dated 27 October 1958.

(b) CPO #57-234 dated 13 November 1957, revised 9 January 1958

1. GROUND MAINTENANCE TOOL AND TEST FACILITY REPORTS - PREPARATION OF

- These minutes authorize <u>Engineering</u> and <u>Customer Service</u> to proceed with the task outlined in Reference (b) with the exception that the manuals to be prepared shall be applicable to all Model 880 operators.
- B. The following maintenance, overhaul and facility requirement manuals are required:
 - (1) Maintenance and overhaul time period of components.

(2) Overhaul facility requirements.

- (3) Line maintenance facility requirements.
- Cost Proposal Outline #57-234.
- D. Engineering Support Planning has completed the data cards for Item E (1) manual. This manual will be completed by <u>Gustomer Service</u>. Copies will be used by the ATA Ground Maintenance and Overhaul Committee for submittal to the CAA. Tentative schedule for submittal to CAA by the ATA Committee is 1 September 1959.
- E. The (2) and (3) manuals indicated above are to be completed by Engineering-Support Planning by 15 March 1958.
- F. This Sales Order is issued to clarify Sales Order 880-0-45 and does not provide additional funds over and above those authorized by Sales Order 880-0-45.
- G. Contracts Department will be advised when the above manuals have been completed and shipping instructions will be provided at that time.

ACTION: All concerned are directed to proceed with the above.

A.J. Savard Project Engineer

AJS:JMC:eed

*Revised: 26 May 1959

Revised: 26 Deceber 1958

(c) Discussions between REAL and Convair May 1959

REAL 31-14

and (c)

aterates (a. and b), this Solar men substitue the transfer of one of smooth Stocatroral to which is in xection and 31-14 comparation for the particular already and the particular already to bee vive vermon it directly and are to be causing ore for

and the two 31-14 aircraft for REAL.

MALANCE TO AN ENGINEE OF COME (1)

The niroral authorized howeunder is to be about all identical installed subsequent to the flight test program.

- A carte Mark of purposes in connection with the 3 - versions

- (4) The aircraft to be manufactured under this authorisation is to be coordinated with the two REAL aircraft under Sales Order 880-14-1, all of which are to be delivered to REAL.
- (5) The schedule for delivery of this airplane to the customer will be established by further revision to this Sales Order.

1378

O Las ou

Revised to edd to Para. (1).

*Rev to add Ref (c), ang 31-11 to 31-14, add to Para (1), delete Fara (3), add Fara (4) and (5)

A Division of General Dynamics Corporation (San Diego)

No. 88 22=0

MODEL 880 MINUTES 29 October 1958

ceremos: (a) S.O. 880-0-105, dated 20 October 1958, revised 24 October 1958.

L. AUTHORIZATION FOR MANUFACTURE OF ONE (1) MODEL 31 AIRCRAFT

concerned to proceed with the engineering release of a quantity of one (1) Model 880 aircraft which is to reflect the 31-13 configuration. This particular aircraft is in addition to the five Model 31 aircraft which are to be manufactured for Swissair. The aircraft authorized hereunder is to be structurally identical with the 31-13 but is to be manufactured minus interior, exterior marks and other Swissair peculiar changes.

B. The aircraft covered by this authorization will be utilized for flight test and certification purposes in connection with the 31-13 version.

CTION: All concerned are directed to proceed with the above action.

JS:JMC:eed

A. J. Savard Project Engineer

SALES ORDER

Sold tos Hughes Tool Company Date: 2 October 1958

Houston, Texas

SO No.

880-0-104

and

WO No. 30,000 Series

Delta Air Lines, Inc. Atlanta Municipal Airport Atlanta, Georgia

Reference: (a) Amendment No. 1 to Hughes Tool Company - Convair Purchase Agreement

(b) Amendment No. 3 to Delta Air Lines - Convair Purchase Agreement

DELIVERY SEQUENCE NUMBERS

(1) The delivery schedule set forth in references (a) and (b) is repeated herewith for information and compliance by all departments concerned.

CUSTOMER	MFG. NO.	DELIVERY SEQUENCE	ACCEPTANCE MONTH		
AWT	5	1	November 1959		
TWA	6	2	December 1959	December 1959	
DAL	7	3	January 1960		
TWA	8	4	January 1960		
TWA	9	5	February 1960		
TWA	10	6	February 1960		
DAL	11	7	March 1960		
TWA	12	8	March 1960		
TVIA	13	9	March 1960		
TWA	2	10	April 1960		
TWA	14	11	April 1960 REC	EIVED	
TWA	15	12	April 1960 007	10'58	
DAL	16	13	April 1960 PRO	PEC.	
DAL	17	14		900	
TWA	18	15	May 1960		
TWA	19	1.6	May 1960		
TWA	20	17	May 1960		

Sold to: Hughes Tool Company

Houston, Texas

Delta Air Lines, Inc. Atlanta Municipal Airport

Atlanta, Georgia

Reference: See Page 1

Date: 2 October 1958

SO No. 880-0-104

WO No. 30,000 Series

CUSTOMER	MFG. NO.	DELIVERY SEQUENCE	ACCEPTANCE MONTH
TWA	21	18	June 1960
TWA	22	19	June 1960
AWT	23	20	June 1960
TWA	24	21	June 1960
DAL	25	22	June 1960
DAL	4	23	July 1960
TWA	26	24	July 1960
TWA	27	25	July 1960
TWA	28	26	July 1960
TWA	29	27	July 1960
TWA	30	28	July 1960
TWA	31	29	August 1960
TWA	32	30	August 1960
TWA	33	31	August 1960
TWA	34	32	August 1960
TWA	35	33	August 1960
DAL	36	34	August 1960
DAL	37	35	September 1960
DAL	38	36	September 1960
TWA	1	37	September 1960

- Page 3 -

SALES ORDER

Sold tos

Hughes Tool Company

Houston, Texas

and

Date: 2 October 1958

SO No.

880-0-104

WO No. 30,000 Series

Delta Air Lines, Inc. Atlanta Municipal Airport Atlanta, Georgia

Reference: See Page 1

CUSTOMER	MFG. NO.	DELLVERY SEQUENCE	ACCEPTANCE MONTH
TWA	39	38	September 1960
DAL	40	39	September 1960
TWA	3	40	September 1960

(2) This Sales Order cancels and supercedes Sales Orders Nos. 880-1-2 and 880-2-2 insofar as delivery sequence numbers are concerned.

WDW:1t

Log No: 5088

C. G. Glasgow Manager of Contracts

G O N V A I R A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES 9 October 1958 NO.86

Reference: (a) S.O. 880-0-104 dated 2 October 1958

1. DELIVERY SEQUENCE NUMBERS

The following delivery schedule set forth in Reference (a) Sales Order is herewith repeated for the information of all concerned:

CUSTOMER	MFG. NO.	DELIVERY SEQUENCE	ACCEPTANCE MONTH
TWA TWA DAL TWA	MFG. NO. 5 6 7 8 9 10 11 12 13 2 14 15 16 17 18 19 20 21 22 23 24 25 4 26 27 28 29 30 31 32 33 34 35 36 37 38 1 39 40	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	November 1959 December 1959 January 1960 January 1960 February 1960 March 1960 March 1960 March 1960 April 1960 April 1960 April 1960 May 1960 May 1960 May 1960 June 1960 June 1960 June 1960 June 1960 July 1960 July 1960 July 1960 July 1960 July 1960 August 1960 August 1960 August 1960 August 1960 August 1960 September 1960 September 1960 September 1960 September 1960 September 1960 September 1960
TWA	3	39 40 A. J.	September 1960 September 1960 Savard Engineer

Soles Orders 880-0-103 not issued

V. Mathews 6-122 CONVAIR A Division of General Dynamics Corporation (San Diego) No. 103 13 June 1961 5 BASIC MINUTES 880-0-103 (a) Memo, R. R. Hoover to J. T. Ready, Jr. dated 8 June 1961 (b) Management Decision No. 137 Reference: RECEIVED JUN 1/ 61 INCREASE IN ZERO FUEL WEIGHT PROJECT SPEC. GROUP Management has approved our proceeding immediately with necessary engineering to provide zero fuel weight for Model 22M of at least 125,000 lbs. ACTION: Cost and Schedules are to prepare EWO's immediately. The cost shall be within that stated in reference (a) memo and it is requested that the information be available by :... 1 November 1961. JTR:AA:re

SALES ORDER

Sold to:

REAL S/A - Transportes Aereos

Rua Conselheiro Crispiniano

379 - 80 Ander Seo Paulo, Brazil Date:

WO No:

17 September 1958

SO No:

880-0-102

30,000 Series

Reference:

(a) Letter, Sinclair (Convair) to Alvarenga (Real) dated 1 May 1957

(b) Memo, Zevely to Eastland, dated 12 September 1958

(c) CPO No. 58-165

MOURL 880 - REAL 5/A

GROUND OPERATIONS AND MAINTENANCE SURVEY

- (1) Based on the commitment made in reference (a), the Engineering Department is authorized to conduct a ground operations and maintenance survey for REAL S/A at the earliest convenient date at no charge to REAL.
- (2) A maximum of Eight Thousand Dollars (\$8,000.00) is authorized to cover all costs including salaries, travel, per diem, manuals, etc..
- (3) Upon request, Commercial Contracts (G. Pierce, Ext. 1358) will arrange free transportation via REAL from Mismi to Brazil and return. Personnel conducting this survey may benefit from results of G. Pierce's recent trip to REAL in the area of more efficient planning, utilization of time and material gathered.

(4) FOR CONTROLLER'S DEPARTMENT ONLY

An attempt will be made to recover the funds authorized for this survey via further changes on the REAL 880 aircraft per discussions between D.H. Digges, J.R. Herbig and C.O. Roberts.

COR:dan

Log No: 4905

C. G. Glasgow Manager of Contracts

RECEIVED

SEP 19'58

PROJECT SPEC. GROUP

***Revised: 20 February 1951 Freyland: 27 December 1960 Openical Dynamics Composed on San Plans 12, Call Pards Molel 3'10 Purchass Agreement between W G Day Coovair and Minesk Airlines, Inc., dated July 20, 1959 (b) Hoper's letter, Teyler to Chambers, Wire, Zavely to (g) datest 1 February 1960 Benscoter, dated 22 (a) Mahask letter, Taylor to Chambers, November 1960. Wire, Zevely DECE, Benscoter, delleCE, dated 1 Pakersony 1960 (AD Bute 59-1-1) (d) Frichage Agreement dated 21 July 2060 November 1960. between General Dynamics Corporation & FEB 22 '61 Air Carrier Service Corporation Me to Conley to Diggs Carothers (Verbal Authorization J.V. Profit to Br. Conley 21 December 1961) Gated 22 December 1960 Security Of Will Mills 1960 Alexander 1960 GROU (r) GRO! [1] Furnished to reference (a) Convert has purchased four (4) Model 240 streets to a Where Airlines, Inc., Registration Rushert E-1011C, E-1015C, E-1016C, and E-1011 The above directly are currently located at Mobert's radiaty at Ordin Courty Alreadt, Uties, Ess York. By prior agreement Mohest has agreed to entitally the sire aft mattle 1/8 Frimmary 1960. It is may measurary that miditional arrangement he mide. (3) This Sales Order, travefore, mathemiass the Material Department to proceed the begoviations with Robert Aiglines, Inc., for the indefinite storage of the local (b) Model 240 aircraft at Otion, May York. Upon completion of a deficition Agreement, this Sales Order forther enthorizes the insumes of purities arthur ther the accomplishment of said sterrige and associated tenins. This Silve Order is seviet to further authorize the Material Lapurinesi to ever with magnifications with Mobawk Airlines, Inc., for the secomplishment of a Morthinges Directive Compliance Note 59-1-1 and Compair Merview Bulletin Especial to the four subject Medal 200 sireruft. Open completion of a definitional answer west this Sales Order authorizes the issuance of Furchase Orders for the same plintment of this track. The Selies Order in further remised to sutherfus the Material Department to struct Mobald Airlines to proggalish the demodiate degrees watton of Model An sing aft wenteration Masham N-1601C and H-1616C. (6) All departments concerned are hareby notified that title to Model 240 aircraft Registration Bombers E-1011C and H-1016C bas been transferred to Air Carrier Service Convexation in accordance with Reference (d) Purchase Agreement. for A. B. Carollager for D. H. Tages O Bigging of Britisher

Revised to add Para. (10).

Revised to add Ref. (g) and (h) and Para. (9).

OBVAIR - Sen Diego

***Revised:

20 February 1961

in Davised:

27 December 1960

Commiss A Division of

2 August 1960

General Dynamics Corporation San Diego 12, California

HO No:

B-75:

140-0=101

Buffermieer See Page One

WO No: 508

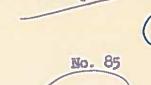
(9) In accordance with Reference (1), the Material Department is directed to issue appropriate authorization to Mohauk Airlines, Inc., for the accomplishment of Material Department is directed to issue appropriate authorization 59-2-1 in Convair Model 240 aircraft E-1021G.

- (9) The lease by Mohawk Airlines of aircraft Registration No. N-1021G was extended from 1 November 1960 to 31 December 1960 in accordance with References (g) and (h).
- (10) Departments concerned are advised that Aircraft Registration No. N-1021G is now under lease to Mohawk Airlines, Inc., in accordance with the terms of the Lease Agreement between Convair and Mohawk dated 25 January 1961.

C O N V A I R A Tolsion of General Dynamics Corporation (San Diego)

MODEL 880 MINUFEES

9 September 1958



Reference:

(a) S.O. 880-0-101 dated 9 September 1958

(b) Steering Committee Minutes dated 4 August 1958

1. SPERRY INTEGRATED FLIGHT SYSTEM

As indicated by reference (a), San Diego Division management has concluded that the Sperry Integrated Flight System is now basic to the Model 880 aircraft. Accordingly, the following list of instrument changes are to be incorporated in the 880 basic specification to provide a Sperry Integrated Instrument System:

Remove - (From Flight Instruments)

2 Indicator, Attitude 2 Indicator, Deviation (Pictorial) 2 To-From Sensors 2 Servo Amplifiers 2 Racks	158 614939 177©007 618379 614937-51	Stoles 12 58 Spect Spect
(From C-10 Compass System)		MECEINED
2 Gyrosyn Compass Indicator	616729	BEDE

Add (To Flight Instruments)

2 Indicator Horizon Flight Director HZ-3 2 Indicator, Pictorial Deviation R-1	1777553 614939
2 Instrument Amplifiers consisting of:	
1 Reck	614937-51
1 To-From Sensor	1778007
3 Servo Amplifier	618379
1 Vertical Gyro	617926-1
1 Flight Director Computer Z-4	615033-3

(To Compass System)

2 Indicator, Gyrosyn Compass with Power Failure Flag

616729

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

A. J. Severd Project Engineer

AJS:rb

IN & Brown

CONVAIR-SAN DIEGO

Sold to:

Convair

Date:

27 August 1958

A Division of General Dynamics Corporation San Diego 12, California

SO No:

880-0-100

Reference: (a)

WO No: 30,000 Series

MODEL 880

ADVANCE AUTHORITY FOR 31-11 VERSION ENGINEERING

- (1) The Engineering Department is authorized to spend One Hundred Eighty Thousand Dollars (\$180,000.00) during the months of September and October 1958 for engineering on the 31-11 version of the Model 880 aircraft. These funds are for engineering department use only and specifically exclude ordering of long lead time material items.
- (2) This authority is granted on a calculated risk basis in order to protect schedule position, and said authority is not the result of any advice from a customer indicating purchase of the 31-11 type aircraft.
- (3) This Sales Order will be reviewed on October 20, 1958, for appropriate revision.

CJD:be

Manager of Contracts

RECEIVED

AUG 28'58 PROJECT SPEC. GROUP

Soles Order 880-0-99 not issued

CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair

Date:

1 July 1958

A Division of General Dynamics Corporation

San Diego 12, California

30 No:

880-0-98

Reference:

(a) Sales Order 880-0-93

WO No:

30,000 Series

(b) Telephone conversation 6/30/58 between

R.R. Hoover, C.G. Glasgow and T.B. Eastland

(c) Memo, D.H. Digges to C.G. Glasgow dated 6/30/58

MODEL 880 ADVANCE ENGINEERING AUTHORIZATION - AAL VERSION

(1) Supplemental to Reference (a) and in accordance with References (b) and (c) further expenditures in the total amount of Three Hundred Fifty Thousand Dollars (\$350,000.00) are authorized during the month of July 1958 for continuance of engineering activities on the American Air Lines Version (Model 600) of the 880. This authorization covers Three Hundred Twenty-Five Thousand Dollars (\$325,000.00) in additional funds together with Twenty-Five Thousand Dollars (\$25,000.00) unexpended from funds previously authorized in Reference (a). Anticipated needs are as follows:

140 man months at \$8.00 hr	\$ 194,000
Experimental model shop and	
materials	50,000
Low Speed Wind Tunnel Labor, Low	
Speed and Co-op Tunnel. Occupancy	47,000
Computers	5,000
Engineering Materials and Unknowns -	
10% of above	29,000
Unexpended funds authorized in June 19	58 25,000

\$ 350,000

(2) This authority is granted on a calculated risk basis in order to protect Convair's schedule position. This authority is not the result of any advice received from American Air Lines indicating AAL's purchase of Model 880 aircraft.

CJD:dm

C. G. Glasgow

Manager of Contracts

Ten 4936

Sold to: Convair Date: 1 July 1958

A Division of General Dynamics Corporation

San Diego 12, California SO No: 880-0-97

Reference: (a) Commercial Change Proposal No. 134A - TWA WO No: 30,000 Series

(b) Commercial Change Proposal No. 109A - DAL

(c) Sales Order No. 880-1-107 (d) Sales Order No. 880-2-91

MODEL 880

CAA FLIGHT DATA RECORDER PROVISIONS

- (1) TWA and Delta Air Lines have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for CAA flight data recorder provisions. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to TWA and Delta are set forth in References (c) and (d).

C. G. Glasgow Manager of Contracts

WINW - home

Log No: 4351

W W 45 V 45 45 45 A Division of General Dynamics Corporation (Sen Diego)

Model 880 Minutes 2 July 1958

No. 84 22-0

Reference:

(a) S.O. 880-0-97 dated 1 July 1958
(b) Commercial Change Proposal No. 134A - TWA
(c) Commercial Change Proposal No. 109A - DAL

s.o. 880-1-107 s.o. 880-2-91

1. CAA FLIGHT DATA RECORDER PROVISIONS

TWA and Delta have accepted proposals submitted under references (b) & (c) respectively, providing, in general, for the installation of provisions for CAA flight data recorders.

San Diego Division Management, as evidenced by reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to rpoceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JM:rb

accounting Soles Order 880-0-96 Sold to:

1 July 1958

San Diego 12, California

A Division of General Dynamics Corporation

SO No:

Dates

880-0-95

(a) Commercial Change Proposal No. 58

(b) Sales Order No. 880-2-37

WO No: 30,000 Series

MODEL 880

REVISE CLO COMPASS SYSTEM BY DELETING CONTROLLER AND INSTALLING A SWITCH

- (1) Delta Air Lines has accepted the proposal submitted under Reference (a) providing, in general, for deletion of the controller and installation of a switch on the ClO compass system. San Diego Division management has concluded that this item is now basic to the Model 880 airplane. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta Air Lines are set forth in Reference (b).

Manager of Contracts

WDW:bc

Log No: 4350

C O N V A I R A Division of General Dynamics Corporation (Sen Diego)

Model 880 Minutes 2 July 1958

No. 83 22-0

Reference:

(a) S.O. 880-0-95 dated 1 July 1958

(b) Commercial Change Proposal No. 58

(e) S.O. 880-2-37

1. REVISE C10-COMPASS SYSTEM BY DELETING CONTROLLER AND INSTALLING A SHITCH

Dolta Air Lines has accepted the proposal submitted under reference (b), providing, in general, for deletion of the controller and installation of a switch in the CLO Compass System.

San Diego Division Management has concluded, as evidenced by reference (a), that this change is now basic to the Model 880 airplane.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

A.J. Savard Project Engineer

AJB: JEC:rb

Sold to: Convair

A Division of General Dynamics Corporation

Date:

23 May 1958

San Diego 12, California

SO No:

880-0-94

Reference:

(a) Commercial Change Proposal No. 180 - TWA

(b) Commercial Change Proposal No. 149 - DAL

WO No: 30,000 Series

MODEL 880

DELETION OF LANDING FLARES

(1) San Diego Division management has concluded that deletion of landing flares is now basic to the model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.

WDW:be

Log No: 5007

C. G. Glasgow Manager of Contracts

C O H V A I R A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES 26 May 1958

No. 82

Reference: (a) Seles Order 880-0-94 dated 23 May 1958

(b) Commercial Change Proposal No. 180 - TWA (c) Commercial Change Proposal N . 149 - DAL

1. DELETION OF LANDING FLARES

San Diego Division Management has concluded, as evidenced by reference (a), that deletion of landing flares is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

A. J. Sayard Project Engineer

AJB: JMC:rb

CONVAIR-SD

SALES ORDER

Sold to: Convair

10 June 1958 Date:

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-93

WO No: 30,000 Series

Reference: (a) Memo, Sebold to Coggan, dated 6/6/58

MODEL 880

ADVANCE AUTHORITY FOR AAL VERSION ENGINEERING

- (1) The Engineering Department is authorized to spend One Hundred Twenty-Five Thousand Dollars (\$125,000.00) during the month of June 1958 for engineering on the American Air Lines version (Model 600) of the 880. These funds are for Engineering Department use only and specifically exclude ordering of long lead time material items.
- (2) This authority is granted on a calculated risk basis in order to protect our schedule position. This authority is not the result of any advice from American Air Lines that they are purchasing this airplane.

COR:dm

Leg Asign

Manager of Contracts

Sold to: Convai

Convair

A Division of General Dynamics Corporation

Date: 23 May 1958

Revised: 29 May 1958

San Diego 12, California SO No: 880-0-92

Reference: (a) Commercial Change Proposal No. 171A WO No: 30,000 Series

(b) Sales Order No. 880-1-137

MODEL 880

STABILIZER TRIM CONTROL, ADDITION OF ELECTRICAL DRIVE CAPABILITY

- (1) TWA has accepted our proposal submitted under Reference (a) providing, in general, for addition of electrical drive capability to the atabilizer trim control. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to TWA are set forth in Reference (b).

WDW:be

Log No: 5001 4119

Rev. to cancel following decision item will not be basic. (Per Memo, Dill to Roberts, 5/28/58) C. G. Glasgow Manager of Contracts Sold to: Con

Convair

Date:

22 May 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-91

Reference:

(a) Commercial Change Proposal No. 168 - TWA WO No: 30,000 Series

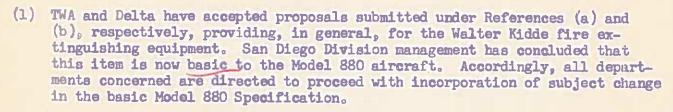
(b) Commercial Change Proposal No. 136 - DAL

(c) Sales Order No. 880-1-133

(d) Sales Order No. 880-2-103

MODEL 880

FIRE EXTINGUISHING EQUIPMENT - WALTER KIDDE



(2) Price effects to TWA and Delta are set forth in References (c) and (d).

WDW: bc

Log No: 1734

C. G. Glasgow Manager of Contracts

C O H V A I H A Division of Ceneral Dynamics Corporation (San Diego)

MODEL 880 MINURES

26 May 1958

No. 80

22-0

Reference:

- (a) Sales Order 880-0-91 dated 22 May 1958
- (b) Commercial Change Proposal No. 168 TMA (c) Commercial Change Proposal No. 136 - DAL (d) Sales Order 880-1-133
- (d) Sales Order 880-1-133 (e) Sales Order 880-2-103

1. FIRE EXPINGUISHING EQUIPMENT - WALKER KIDGE

TWA and Dalta have accepted, as evidenced by references (d) and (e), proposals providing for the installation of Walter Kidde Nacelle Fire Extinguisher equipment. San Diego Division Hanagament has concluded, as evidenced by reference (a), that this item is now basic to the Model 860 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

A. J. Savard Project Engineer Sold to: Convair Date:

22 May 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-90

Reference:

(a) Commercial Change Proposal No. 159 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 129 - DAL

(c) Sales Order No. 880-1-128

(d) Sales Order No. 880-2-84

MODEL 880

RELOCATION OF STEWARDESS SEATS AND HANDSETS

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for relocation of the stewardess seats and handsets. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:be

Log No: 4082

C. G. Glasgow Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

No. 79 22-0

MODEL 880 MINUTES

26 May 1958

Reference:

- (a) Sales Order 880-(1-90 dated 22 May 1958
 (b) Commercial Change Proposal No. 159 TWA
 (c) Commercial Change Proposal No. 129 DAL
 (d) Sales Order 880-1-128
 (e) Sales Order 880-2-84

1. RELOCATION OF STEWARDESS STATE AND HANDSETS

TWA and Delta have accepted, as evidenced by references (d) and (e), the proposals providing, in general, for relocation of the stewardess seats and handsets.

San Diego Division Management has concluded, as evidenced by reference (a), that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 800 Specification.

AJS:JMC:rb

CONVAIR-SAN DIEGO

SALES ORDER

Convaix Sold to:

Date:

22 May 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-89

Reference:

(a) Commercial Change Proposal No. 150 - TWA

WO No: 30,000 Series

(b) Commercial Change Proposal No. 121 - DAL (c) Sales Order No. 880-1-115

(d) Sales Order No. 880-2-92

MODEL 880

USE OF RIVETS IN WING LEADING EDGES

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for the use of rivets in wing leading edges. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to TWA and Delta are set forth in References (c) and (d).

WDW:be

Log No: /OS/

Manager of Contracts

REBARBOJ A Bivinien of Ceneral Dynamics Corporation (San Diego)

MODEL 880 MINIFEES

26 May 1958

no. 78 22-0

Reference:

(a) Sales Order 880-0-89 dated 22 May 1958 (b) Commercial Change Proposal No. 150 - TWA

(c) Commercial Change Proposal No. 121 - DAL (d) Sales Order 880-1-115

Sales Order 880-2-92

USE OF RIVERS IN WING LEADING EDGES

THA and Delta have accepted, as evidenced by references (d) and (e), our proposals providing for the use of rivets to attach the wing leading edge cartions to the forward legs of the pieno hinges.

Sen Diego Division Management has concluded, as evidenced by reference (a), that this item is now besis to the Model 880 Aircraft.

ACHION: All concerned are directed to proceed with the incorporation of subject change in the besic Model 880 Specification.

AJB:JC:rb

Convair

A Division of General Dynamics Corporation San Diego 12, California

ate: *Revised: 29 May 1958

SO No:

880-0-88

Reference: (a) Commercial Change Proposal No. 153

(b) Sales Order No. 880-1-112

WO No: 30,000 Series

MODEL 880

1,000 WATT LANDING LIGHTS, INSTALLATION OF

- (1) TWA has accepted the proposal submitted under Reference (a) providing, in general, for installation of 1,000 watt landing lights. San Diego Division management has concluded that this item is now basic to the Model 880 airerart. Accordingly, all departments concerned are directed to proceed with incorporation of subject charge in the basic Model 880 Specification.
- (2) Frice effects to TWA re set forth in Reference

WDW b

Log No: 4116

*Revised to cancel following decision item will not be basic. Manager of Contracts

Sold to: Convair

Date:

23 May 1958

30,000 Series

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-87

Reference:

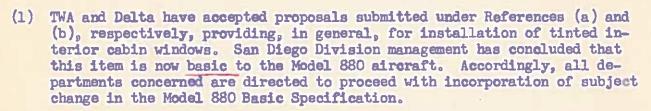
(a) Commercial Change Proposal No. 127 - TWA WO No:

(b) Commercial Change Proposal No. 100 - DAL

(c) Sales Order No. 880-1-100 (d) Sales Order No. 880-2-83

MODEL 880

TINTED INTERIOR CABIN WINDOWS



(2) Price effects to current customers are set forth in References (c) and (d).

WDW:bc

Log No: 5002

C. G. Glasgow Manager of Contracts A Division at Standard Constitute (Sun Diogra)

ROTEL 880 MARKET

26 May 1958

76. 78 22-0

Reference:

(a) Sales Order 380-0-87 dated 23 May 1958
(b) Commercial Change Proposed No. 127 - TVA

(c) Commercial Change Proposal No. 100 - DAL (d) Sales Order No. 880-1-100 (e) Sales Order No. 880-2-83

1. MINTED INTERIOR CARTH WINDOWS

TWA and Dalta have accepted, as avidenced by reference (d) and (e), proposals providing for installation of tinted interior cabin windows.

San Diego Division Management has comcluded, as evidenced by reference (a), that this licen is now basic to the Model 880 alreaft.

ACTION: All Concerned are directed to proceed with the dedorporation of subject clamps in the basis head. 800 Specificables.

A. J. Severd Project Engineer

AJB: JMC: rb

Sold to:

Convair

Date:

22 May 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-86

Reference:

(a) Commercial Change Proposal No. 4 - TWA (b) Commercial Change Proposal No. 1 - DAL (c) Sales Order No. 880-1-108

WO No: 30,000 Series

(d) Sales Order No. 880-2-73

MODEL 880

DETAILED REVISION TO THREE-VIEW DRAWING

(1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for detailed revision to threeview drawing. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the Model 880 Specification.

(2) Price effects to current customers are set forth in References (c) and (d).

WDW:be

Log No: 4081

C. G. Glasgow Manager of Contracts

A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUFES

26 May 1958

No. 75

Reference:

- (a) Sales Order 880-0-86 dated 23 May 1958
- (b) Commercial Change Proposal No. 4 THA (c) Commercial Change Proposal No. 1 - DAL
- (d) Sales Order 880-1-108 (e) Sales Order 880-2-73

1. DETAILED REVISION TO THREE-VIEW DRAWING

TWA and Dalta have accepted, as evidenced by references (d) and (e), proposals providing for detailed revision to the three-view drawing to incorporate the latest external configuration into the specification.

San Diego Division Management has concluded, as evidenced by reference (a), that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

A. J. Savard Project Engineer

AJS:JMC:rb

880-0-85

Sold to: Convair Date: 23 May 1958

A Division of General Dynamics Corporation
San Diego 12. California SO No:

Reference: (a) Commercial Change Proposal No. 84 WO No: 30,000 Series (b) Sales Order No. 880-2-68

MODEL 880

INSTALLATION SOLID RADOME AND DELETION RADOME ANTI-ICING PROVISIONS

- (1) Delta has accepted the proposal submitted under Reference (a) providing, in general, for installation of a solid radome and for deletion of radome anticing provisions. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model Specification.
- (2) Price effects to Delta are set forth in Reference (b).

WDW:be

Log No: 1000

C. G. Glasgow

Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

26 May 1958

No. 74 22-0

Reference:

(a) Sales Order 880-0-85 dated 23 May 1958
(b) Commercial Change Proposal No. 84
(c) Males Order No. 880-2-68

1. Installation of Solid Redome and Deletion of Anti-Teing Provisions.

Delta Air Linen has accepted, as evidenced by reference (c), our proposal, reference (b) for deletion of anti-leing provisions and installation of a Radome Rain Erosion Boot.

San Diego Division Management has concluded, as evidenced by reference (a), that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JRC:rb

Sold to: Convair

Date:

23 May 1958

A Division of General Dynamics Corporation San Diego 12, California

SO No:

880-0-84

Reference:

(a) Commercial Change Proposal No. 22A

WO No: 30,000 Series

(b) Sales Order No. 880-2-48

MODEL 880

PASSENGER WATER SYSTEM - CHANGE TO 50 GALLON TANK

- (1) Delta has accepted the proposal submitted under Reference (a) providing, in general, for a change in the passenger water system to 50 gallon capacity. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta are set forth in Reference (b).

WDW:be

Log No: 500 1.

C. G. Glasgow Manager of Contracts

A Division of General Dynamics Corporation (San Diego)

HODEL 880 MINUTES

26 May 1958

No. 73 22-0

Reference: (a). Sales Order No. 880-0-84 dated 23 May 1958

(b). Commercial Change Proposal No. 22A (c). Sales Order No. 880-2-48

1. Passenger Water System - Change to 50-Gallon Tank.

Delta has accepted the proposal submitted under reference (b) providing for the change to a pressurised water system utilizing a single 50-gallon tank. Sam Diego Division Management has concluded, as evidenced by reference (a), that this item is basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

> A. J. Savard Project Engineer

AJS: JMC:rb

Sold to:

Conveir

Date:

23 May 1958

A Division of General Dynamics Corporation San Diego 12, California

*Revised: SO No:

29 May 1958 880-0-83

Reference: (a) Commercial Change Proposal No. 49 - TWA WO No: 30,000 Series (b) Commercial Change Proposal No. 43 - DAL

(c) Sales Order No. 880-1-27

(d) Sales Order No. 880-2-28

MODEL 880 - BASIC

OXYGEN PASSENGER OUTLETS

- (1) TWA and Delta have accepted proposals submitted water References (a) and (b), respectively, providing, in general, for additional passenger oxygen outlats. San Diego Division management has concluded that this item is now tasic to the Model 880 aircraft Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 aircraft Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDWaba

Log No. 100 4115

*Ravised to cancel following decision item will not be basic.

Manager of Contracts

Convair Sold to:

Date:

22 May 1958

A Division of General Dynamics Corporation San Diego 12, California

880-0-82

Reference: (a) Commercial Change Proposal No. 115A

WO No:

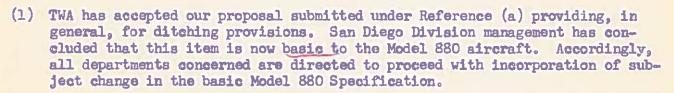
SO No:

30,000 Series

(b) Sales Order No. 880-1-144

MODEL 880

DITCHING PROVISIONS



(2) Price effects to TWA are set forth in Reference (b).

WDW : be

Log Nos 4085

Manager of Contracts

CORVAIR A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES 26 May 1958

> No. 71 22-0

(a) S. O. 880-0-82 dated 22 May 1958 (b) S. O. 880-1-144

(c) Commercial Change Proposal No. 115A

1. DITCHING PROVISIONS

TWA has accepted, as evidenced by reference (b), our proposal submitted under reference (c), providing, in general, for inclusion of structural provisions for overwater operation.

San Diego Division Management, as evidenced by reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

Project Engineer

AJS: JMC:rb

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

Date:

23 May 1958 880-0-81

Reference:

(a) Commercial Change Proposal No. 27

(b) Sales Order No. 880-2-10

WO No: 30,000 Series

MODEL 880

SPERRY AUTO PILOT

- (1) Delta has accepted our proposal submitted under Reference (a) providing, in general, for the sperry auto pilot. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta Air Lines are set forth in Reference (b).

WDW:bc

Log No: 1015

Cofficients

G. G. Glasgow

Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

26 May 1958

No. 70 22-0

(a) Sales Order 880-0-81 dated 23 May 1958 (b) Sales Order No. 880-2-10

(c) Commercial Change Proposal No. 27

1. SPERRY AUTOPILOT

Delta has accepted our proposal, as evidenced by reference (b), submitted under reference (c), for installation of the Sperry Autopilot.

San Diego Division Management, as evidenced by reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JMC:rb

Sold tos

Convair

Date:

23 May 1958

A Division of General Dynamics Corporation San Diego 12, California

SO No:

* Revised: 27 May 1958

Reference:

(a) Commercial Change Proposal No. 5 - TWA

WO No: 30,000 Series

(b) Commercial Change Proposal No. 5 - DAL

(c) Sales Order No. 880-1-9

(d) Sales Order No. 880-2-8

MODEL 880

HIG-O-FLEX

TARREN FUEL LINE COUPLINGS IN LIEU OF ERM

- (1) TWA and Delta have accepted our proposal submitted under References (a) and (b), respectively, providing, in general for the rule line couplings in lieu of ERM. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d)

WDW:be

Log No: 4126

*Rev. to correct title.

Manager of Contracts

A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

29 May 1958 .

No. 69 22-0

Reference:

(a) S.O. 880-0-80, Revised 27 May 1958

(b) Commercial Change Proposal No. 5 - THA (c) Commercial Change Proposal No. 5 - DAL

(d) 5.0. 990-1-9 (e) 5.0. 880-2-8

WIG-O-FLEX FUEL LINE COUPLINGS IN LIEU OF BEMETO

TWA and Dalta have accepted, as evidenced by references (d) and (e), our proposal substitted under references (b) and (c) providing, in general, for the use of WIG-O-FLEX Fuel Line Couplings for sizes 1" and larger located inside the fuel tanks.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

A. J. Severd Project Engineer

AJS:JMC:rb

Convair

A Division of General Dynamics Corporation

San Diego 12, California

· TWA CCP#

Date:

9 May 1958

SO No:

880-0-79

WO No:

30,000 Series

MODEL 880

LEADING EDGE DEVICES

- (1) This Sales Order authorizes the Engineering Department to take necessary engineering action for the design of leading edge devices on all Model 880 aircraft.
- (2) Installation of the devices should be planned on a production basis on all ships possible, the balance on a retro-fit or modification basis.
- (3) This authority is effective through 31 May 1958 only. Engineering is authorized to expend \$27,000 which is over and above the REA allowance already expended.

CORadm

Len C. C. Glasgow Manager of Contracts

C O N V A I S A Division of General Dynamics Corporation (San Diego)

MODEL 880 NUMUTES

12 May 1958

No. 68

Ref: (a) S.O. 880-0-79 deted 9 May 1958

1. Leading Edge Revices

Reference (a) Sales Order authorizes all concerned Engineering Departments to take the necessary Engineering action for the design of Leading Edge Devices on all Model 880 circuaft.

Installation of the devices should be planned on a production basis on all ships possible, the balance on a retro-fit or modification basis.

This authority is effective through 31 May 1958.

ACTION: All concerned are directed to proceed with the above task.

A. J. Samard Project Engineer

AJS: BE:rb

accounting Dales Order 880-0-78 Sales Order 880-0-77 not issued

Convair

Date:

28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-76

Reference:

(a) Commercial Change Proposal No. 108 - DAL WO No: 30,000 Series

(b) Sales Order No. 880-2-86

MODEL 880

M.L.G. INCREASED HEIGHT OF WHEEL FLANGE

- (1) Delta has accepted the proposal submitted under Reference (a) providing, in general, for increased height of the main landing gear wheel flange. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta are set forth in Reference (b).

WDW: be

Log No: 2005

Manager of Contracts

RECEIVED

MAY 1 '58

PROJECT SPEC. GROUP

2 May 1958

No. 67 22-0

- (a) S. O. 880-0-76 Dated 28 April 1958 (b) Commercial Change Proposal No. 108 DAL
- (c) Sales Order No. 880-2-86

1. M. L. G. INCREASED HEIGHT OF WHEEL BLANGE

Delta has accepted the proposal submitted under Reference (b) providing, in general, for increased height of the main landing gear wheel flange. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJSJMC:18

A. J. Savard Project Engineer Sold to: Convair Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-75

Reference:

(a) Commercial Change Proposal No. 130 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 102 - DAL

(c) Sales Order No. 880-1-113 (d) Sales Order No. 880-2-95

MODEL 880

NOSE WHEEL BRAKES AND STEERING TO NO. 1 SYSTEM

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for changing the nose wheel brakes and steering to the No. 1 system. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

3864 Log No:

Manager of Contracts

RECEIVED

PROJECT SPEC.

2 May 1958

No. 66 22-0

Reference (a) S. O. 880-0-75 Dated 28 April 1958 (b) Commercial Change Proposal No. 130

Commercial Change Proposal No. 130 - TWA

Commercial Change Proposal No. 102 - DAL Sales Order No. 880-1-113 Sales Order No. 880-2-95

1. NOSE WHEEL BRAKES AND STEERING TO NO. 1 SYSTEM

TWA and Delta have accepted proposals submitted under References (a) and (c), respectively, providing, in general, for changing the nose wheel brakes and steering to the No. 1 system. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JMC:1s

A. J. Savard Project Engineer

Convair

Date:

28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-74

Commercial Change Proposal No. 101 - DAL WO No:

30,000 Series

Sales Order No. 880-2-82

MODEL 880 BASIC

SECOND HYDRAULIC RESERVOIR GAGE

- (1) Delta has accepted the proposal submitted under Reference (a) providing, in general, for a second hydraulic reservoir gage. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (b).

REFERENCE

Log No: 3863

Manager of Contracts

PROJECT SPEC. GROUP

11 1 58

Sold to: Convair

A Division of General Dynamics Corporation

28 April 1958 Date:

San Diego 12, California

SO No:

880-0-73

Reference:

(a) Commercial Change Proposal No. 125 - TWA WO No:

30,000 Series

Commercial Change Proposal No. 97 - DAL (b)

(c) Sales Order No. 880-1-88

(d) Sales Order No. 880-2-81

MODEL 880

ZM-256 TO 0-09001

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for title change of the wiring specification to 0-09001. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW: bc

Log No: 3862

C. G. Glasgow Manager of Contracts RECEIVED

MAY 1 '58

PROJECT SPEC GROUP

2 May 1958

No. 64 22-0

Reference (a) S. O. 880-0-73 (b) Commercial Chemical Chem Commercial Change Proposal No. 125 - TWA Commercial Change Proposal No. 97 - DAL Sales Order No. 880-1-88 Sales Order No. 880-2-81

1. ZM-256 TO 0-09001

TWA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for title change of the wiring specification to 0-09001. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JMC:is

A. J. Savard Project Engineer

Convair

Date:

28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-72

Reference:

(a) Commercial Change Proposal No. 124 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 96 - DAL

(c) Sales Order No. 880-1-90

(d) Sales Order No. 880-2-74

MODEL 880

CIRCUIT BREAKER SWITCHES

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for installation of push-pull type circuit breaker switches. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:be

Log No: 3841

C. G. Glasgow Manager of Contracts RECEIVED

MAY 1 '58
PROJECT
SPEC.

GROUP

1 May 1958

Reference (a) S. O. 880-0-72 (b) Commercial Cher Commercial Change Proposal No. 124 - TWA

Commercial Change Proposal No. 96 - DAL Sales Order No. 880-1-90 Sales Order No. 880-2-74

1. CIRCUIT HREAKER SHITCHES

TWA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for installation of push-pull type circuit breaker switches. Sen Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

the state of the second second

AJS: JC:18

Convair

Date:

28 April 1958

A Division of General Dynamics Corporation San Diego 12, California

880-0-71

Reference:

SO No:

(a) Commercial Change Proposal No. 121 - TWA

(b) Commercial Change Proposal No. 95 - DAL

WO No: 30,000 Series

(c) Sales Order No. 880-1-89

(d) Sales Order No. 880-2-77

MODEL 880

DELETION OF FLUSH MOORING PROVISIONS

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for deletion of flush mooring provisions. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

RECEIVED

MAY 1 '58

PROJECT SPEC

GROUP

Log No: 3860

Manager of Contracts

1 May 1958

No. 62 22-0

Reference (a)

S. O. 880-0-71 Dated 28 April 1958 Commercial Change Proposal No. 121 - TWA Commercial Change Proposal No. 95 - DAL Sales Order No. 880-1-89 Sales Order No. 880-2-77

1. DELETION OF FLUER MOORING PROVISIONS

TWA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for deletion of flush mooring provisions. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JEC:16

Engineer

Salt to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

"Revised: 2 May 1958

tel erce.

(a) Commercial Change Proposal No. 120A- TWA (V) Chamerdial Thangs Proposal No. 194 / DAY.

Wowler 30,000 Serion

MODEL 880

IDENTIFICATION OF FASCENCER WINDOWS BY ZONE

- (1) San Diego Division management has concluded that the subject change is row basic to the Model 830 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic-Specification. Veterances/(a) and (y) were carcelled, because it /as /ched that the intent/of the Specification included/this/change.
 - * TWA accepted Reference (a) proposal, CCP 120A.

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100 Not -1010 3940

*Revised to change Ref. (a), delete Ref. (b), revise Para. (1) and add sentence to Para (1).

Manager of Contracts

Sola to:

Dates

28 April 1958

A Division of General Dynamics Corporation San Diego 12, California

SO No:

880-0-69

Reference:

(a) Commercial Change Proposal No. 118A - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 93A - DAL (c) Sales Order No. 880-1-105

(d) Sales Order No. 880-2-106

MODEL 880

APPLICABLE FEDERAL REGULATIONS

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for bringing applicable federal regulations up to date. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

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MAY 1 '58

PROJECT SPEC.

GROUP

WDW:be

Log No: 3858

C. C. Glasgow Manager of Contracts

No. 60 22-0

Reference (a) S. O. 880-0-69, Dated 28 April 1958
(b) Commercial Change Proposal No. 118A - TWA
(c) Commercial Change Proposal No. 93 A - DAL
(d) Sales Order No. 880-1-105

Sales Order No. 880-2-106

1. APPLICABLE FEDERAL REGULATIONS

TWA and Delta have accepted proposals submitted under Reference. (b) and (c), respectively, providing, in general, for bringing applicable federal regulations up to date. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JMC:18

A. J. Savard Project Engineer

Date:

28 April 1958

A Division of General Dynamics Corporation San Diego 12, California

SO No:

880-0-68

Reference:

(a) Commercial Change Proposal No. 116 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 92 - DAL

(a) Sales Order No. 880-1-121

(d) Sales Order No. 880-2-88

MODEL 880

RELOCATION OF VHF COMMUNICATION ANTENNA

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for relocation of the VHF communication antenna. San Diego management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

RECEIVED

MAY 1 '58

PROJECT SPEC. GROUP

Log No: 3857

C. G. Glasgow Manager of Contracts

Model 880 Mimites

5 May 1958

No. 59

Reference (a) S. O. 880-0-68 Dated 28 April 1958
(b) Commercial Change Proposal No. 116 - TWA
(c) Commercial Change Proposal No. 92 - DAL
(d) Sales Order No. 880-1-121

Sales Order No. 880-2-88

1. RELOCATION OF VHF COMMUNICATION ANTENNA

TWA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for a faired-in type antenna installed on the top centerline of the fuselage. San Diego management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JMC:is

Convair

Date:

28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-67

Reference:

(a) Commercial Change Proposal No. 114 - TWA WO No:

30,000 Series

(b) Commercial Change Proposal No. 90 - DAL

(c) Sales Order No. 880-1-91 (d) Sales Order No. 880-2-69

MODEL 880

ANTI-COLLISION LIGHTS

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for a specification administrative change to the anti-collision lights. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

RECEIVED

4AY 1 '58

WDW:bc

Log No: 3856

C. C. Glasgow Manager of Contracts PROJECT SPEC. GROUP

5 May 1958

No. 58 22-0

Reference (a)

S. O. 880-0-67 Dated 28 April 1958

Commercial Change Proposal No. 114 - TWA

Commercial Change Proposal No. 90- DAL Sales Order No. 880-1-91 Sales Order No. 880-2-69

1. ANTI-COLLISION LIGHTS

TWA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for a specification administrative change to the anti-collision lights, to specify drainage provisions for the lower light, and sealing of the upper light against moisture. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 specification.

AJB: JMC:is

Convair

Date:

28 April 1958

WO No: 30,000 Series

A Division of General Dynamics Corporation San Diego 12, California

SO No:

880-0-66

Reference:

(a) Commercial Change Proposal No. 111 - TWA

(b) Commercial Change Proposal No. 89 - DAL

(c) Sales Order No. 880-1-79

(d) Sales Order No. 880-2-79

MODEL 880

AIR CONDITIONING SYSTEM

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for a specification administrative change to the air conditioning system. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

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PROJECT SPEC. GROUP

Log No: 3855

C. G. Glasgow Manager of Contracts

5 May 1958

No. 57 22-0

Reference (a) S. O. 880-0-66 Dated 28 April 1958

(b) Commercial Change Proposal No. 111-TWA (c) Commercial Change Proposal No. 89 - DAL

(d) Sales Order No. 880-1-79 (e) Sales Order No. 880-2-79

1. AIR CONDITIONING CONTROLS

TWA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for a specification administrative change to the air conditioning system specifying that on the ground, with full compressor output, maximum differential pressure will be less than .3 mg with .2 mg as a design objective. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JMC:is

A. J. Savard Project Engineer Sold to: Convair Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California SO No: 880-0-65

Reference: (a) Commercial Change Proposal No. 85B-DAL WO No: 30,000 Series

(b) Sales Order No. 880-2-75-DAL

MODEL 880

NATIONAL AIRCRAFT STANDARD FASTENERS

- (1) Delta has accepted the proposal submitted under Reference (a), providing, in general, for the use of National Aircraft standard bolts and screws. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (b).

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Log No. 3854

Glasgow Manager of Contracts

1 May 1958

No. 56

Reference (a) S. O. 880-0-65Dated 28 April 1958

b) Commercial Change Proposal No. 85B-DAL

(c) Sales Order No. 880-2-75-DAL

1. National Aircraft Standard Fasteners

Delta has accepted the proposal submitted under Reference (b), providing, in general, for the use of National Aircraft standard bolts and screws. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJB:JNC:18

A. J. Savard Project Engineer Sold to: Convair

Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-64

Reference:

(a) Commercial Change Proposal No. 110A - TWA

WO No: 30,000 Series

(b) Commercial Change Proposal No. 88A - DAL

(c) Sales Order No. 880-1-84

(d) Sales Order No. 880-2-80

MODEL 880

REVISION OF RUDDER SERVO MOTOR FROM LINEAR TO ROTARY DRIVE

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for revision of the rudder servo motor from linear to rotary drive. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

MAY 1 '58

PROJECT
SPEC.
GROUP

WDW: be

Log No: 3853

A C. C. Glasgow Manager of Contracts

1 May 1958

No. 55 22-0

Reference (a) S. O. 880-0-64 Dated 28 April 1958

Commercial Change Proposal No. 110A - TWA
Commercial Change Proposal No. 88A - DAL
Sales Order No. 880-1-84
Sales Order No. 880-2-80

REVISION OF HUDDER SERVO MOTOR FROM LINEAR TO ROTARY DRIVE

THA and Delta have accepted proposals submitted under References (b) and (c), respectively, providing, in general, for revision of the rudder servo motor from linear to rotary drive. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 Aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JRC:is

J. Saverd Project Engineer CONVAIR-SD

SALES ORDER

Sold to: Convair Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO Nos 880-0-63

Reference: (a) Commercial Change Proposal No. 103-TWA

WO No: 30,000 Series

(b) Commercial Change Proposal No. 82-DAL

(c) Sales Order No. 880-1-66

(d) Sales Order No. 880-2-59

MODEL 880

BASIC "T" INSTRUMENT ARRANGEMENT

- (1) TWA and Dalta have accepted proposals submitted under Reference (a) and (b), respectively, providing, in general, for the basic "T" instrument panel. San Diego Division management has concluded that this item is now basic to the Medel 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (c) and (d).

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Manager of Contracts

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MAY 1 '58

PROJECT SPEC. GROWP

Log No. 3867

28 April 1958

No. 54 22-0

Reference (a) Sales Order 880-0-63

(b) Commercial Change Proposal No. 103-THA Commercial Change Proposal No. 82-DAL Sales Order No. 880-1-66

Sales Order No. 880-2-59

1. Basic "T" Instrument Arrangement

TWA and Delta have accepted proposals submitted under Reference (b) and (c), respectively, providing, in general, for the basic "T"instrument panel. Som Diego Division Management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 Aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JIC:is

J. Savard Project Engineer CONVAIR-SD

SALES ORDER

Sold to:

Convair

28 April 1958

A Division of General Dynamics Corporation San Diego 12, California

SO No:

Date:

880-0-62

(b) Commercial Change Proposal No. 55-DAL

Reference: (a) Commercial Change Proposal No. 71-TWA

WO No:

30,000 Series

MODEL 880

CARGO COMPARTMENT DOOR LIGHT

(1) San Diego Division management has concluded that the subject change is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Specification. References (a) and (b) were cancelled, because it was decided that the intent of the Specification included this change.

W.DW gdm

Log No. 3868

C. G. Glasgow Manager of Contracts RECEIVED

MAY 1 '58

PROJECT SPEC GROUP

Model 880 Minutes

5 May 1958

No. 53 22-0

Reference (a) S. O. 880-0-62 Dated 28 April 1958 (b) Commercial Change Proposal No. 71-TWA

(c) Commercial Change Proposal No. 55-DAL

1. CARGO COMPARTMENT DOOR LIGHT

San Diego Division management, as evidenced by Reference (a), has concluded that the subject change is now basic to the Model 880 aircraft. References (b) and (c) were cancelled, because it was decided that the intent of the Specification included this change. Reference (b) and (c) specified that a dome type light fixture shall be provided, one each on upper door longeron over forward and aft cargo compartment door.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJB:JMC:18

Convair Sold to:

A Division of General Dynamics Corporation

San Diego 12, California

Date: 28 April 1958 SO No:

880-0-61

Reference:

(a) Commercial Change Proposal No. 54 - TWA

WO No: 30,000 Series

(b) Sales Order No. 880-1-104 - TWA

MODEL 880

DELETION OF EXCITER CEILING PROTECTION

- (1) TWA has accepted the proposal submitted under Reference (a), providing, in general, for deletion of exciter ceiling protection. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to TWA are set forth in Reference (b).

DW:be

og No: 3866

Manager of Contracts

, OJECT PEC. Godel 880 Minutes

1 May 1958

No. 52 22-0

Reference (a) S. O. 880-0-61 Dated 28 April 1958

(b) Commercial Change Proposel No. 54-TWA

(c) S. O. 880-1-104-THA

1. DELETION OF EXCITER CEILING PROTECTION

TWA has accepted the proposal submitted under Reference (b), providing, in general, for deletion of exciter ceiling protection. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the Basic Model 880 Specifications.

AJS:JMC:1s

A. J. Severd Project Engineer Sold to: Co

Convair

A Division of General Dynamics Corporation

Dates

28 April 1958

San Diego 12, California

SO No:

880-0-60

Reference:

(a) Commercial Change Proposal No. 52-TWA

WO No:

30,000 Series

MODEL 880

DELETION OF ACCESS DOOR IN AFT PRESSURE BULKHEAD

(1) San Diego Division management has caneluded that the subject change is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Specification. Reference (a) was cancelled, because it was decided that the intent of the Specification included this change.

WDW:dm

C. G. Clasgow
Manager of Contracts

MN 1 '58

Model 880 Minutes

1 May 1958

No. 51 22-0

Reference (a) 8. 0. 880-0-60 Dated 28 April 1958 (b) Commercial Change Proposal No. 52-TWA

1. Deletion of Access Door in aft Pressure Bulkhead

San Diego Division Management, as evidenced by Reference (a), has concluded that this change is now basic to the Model 880 Aircraft.

Reference (b) was cancelled, because it was decided that the intent of the Specification included this change.

ACTION: All concerned are directed to proceed with incorporation of subject change in the Basic Model 880.

AJB:JMC:is

A. J. Savard Project Engineer Sold to: Convair

Dates

28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-59

(a) Commercial Change Proposal No. LineDAL

WO No:

30,000 Series

(b) Sales Order No. 880-2-11

MODEL 880

SPERRY C-10 COMPASS SYSTEM

- (1) Delta has accepted the proposal submitted under Reference (a), providing, in general for the change from ChB to ClO compass system. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 specification.
- (2) Price effects to current customers are set forth in Reference (b).

WIWschm

C. G. Glasgow Manager of Contracts RECEIVED

MAY 1 '58 PROJECT SPEC.

GROUP

Log No3870

CORVAIR-SD

Model 880 Minutes

1 May 1958

No. 50

Reference (a) S. O. 880-0-59 Dated 28 April 1958

(b) Commercial Change Proposal No. 44-DAL

(c) Sales Order No. 880-2-14

1. Sperry C-10 Compass System

Delta has accepted the proposal submitted under Reference (b), providing, in general for the change from C4B to C10 compass system. San Diego Division Management, as evidenced by reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are authorized to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JE:is

A. J. Savafd Project Engineer Sold to: Convair

Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California SO No: 880-0-58

Reference: (a) Commercial Change Proposal No. 31A-TWA WO No:

WO No: 30,000 Series

(b) Sales Order No. 880-1-57

MODEL 880

INCORPORATION OF USE OF SOLID CO-AXIAL CABLE

- (1) TWA has accepted the proposal submitted under Reference (a), providing, in general for the incorporation of use of solid co-exial cable. San Diego Division management has concluded that this item is now basic to the Model 880 sircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (b).

WDW sdm

Contracts

C. C. C. Clasgow

Manager of Contracts

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MAY 1 '58

PROJECT
SPEC.
GROUP

Log No. 3871

Model 880 Minutes 1 May 1958

No. 49 22-0

Reference (a) S. O. 880-0-58 Deted 28 April 1958

(b) Commercial Change Proposal No. 31A-TWA (c) Sales Order No. 880-1-57

1. INCORPORATION OF USE OF SOLID CO-AXIAL CABLE

TWA has accepted the proposal submitted under Reference (b), providing in general for the incorporation of use of solid co-axial cable. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are authorized to proceed with the incorporation of subject change in the Basic Model 830 Specification.

AJB:JMC:18

J. Savard ject Engineer CONVATR-SD

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

Date:

28 April 1958

San Diego 12, California

SO No:

880-0-57

Reference:

(a) Commercial Change Proposal No. 29-TWA

(b) Commercial Change Proposal No. 25-DAL

WO No:

30,000 Series

(c) Sales Order No. 880-1-65

(d) Sales Order No. 880-2-42

MODEL 880

AC GENERATORS, CHANGE FROM 8000 to 6000 RPM TYPE

- (1) TWA and Delta have accepted proposals submitted under Reference (a) and (b), respectively, providing, in general, for change of the AC Generators from 8000 to 6000 RPM type. San Diego Division management has concluded that this items is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

Manager of Contracts

RECEIVED MAY 1 PROJECT SPEC. GROUP

Log No. 3872

Model 880 Minutes

1 May 1958

No. 48 22-0

Reference (a) 6. 0. 880-0-57 Dated 28 April 1958 (b) Commercial Change Proposal No. 29-TWA

Commercial Change Proposal No. 25-DAL Sales Order No. 880-1-65 Sales Order No. 880-2-42

1. AC Generators, Change from 8000 to 6000 RPM Type

THA and Delta have accepted proposals submitted under Reference (b) and (b), respectively, providing, in general, for change of the AC Generators from 8000 to 6000 RPM type. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 sircraft.

ACTION: All concerned are authorized to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JMC:18

Project Engineer

Sold to:

Convair

Date:

28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO Nos

880-0-56

Reference:

(a) Commercial Change Proposal No. 25-TwA

WO No: 30,000 Series

(b) Sales Order No. 880-1-29

MODEL 880

DESCRIPTION OF PITOT STATIC SYSTEM.

- (1) TWA has accepted the proposal submitted under Reference (a), providing in general, for the description of pitot static system. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (a).

Manager of Contracts

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MAY 1 '58 PROJECT

SPEC. GROUP

Log No. 3852

5 May 1958

No. 47 22-0

Reference: (a) S. O. 880-0-56 Dated 28 April 1958
(b) Commercial Change Proposal No. 25-THA
(c) Sales Order No. 880-1-29

1. DESCRIPTION OF PITOT STATIC SYSTEM

TWA has accepted the proposal submitted under Reference (b), providing in general, for a separate static source for the auto-pilot system. San Diego Division Management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JMC:18

Engineer

Sold to: Convair - Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California SO No: 880-0-55

Reference: (a) Commercial Change Proposal No. 9-DAL WO No: 30,000 Series

(b) Sales Order No. 880-2-22

MODEL 880

RELIEF VALVE SETTING - AIR CONDITIONING

- (1) Delta has accepted the proposal submitted under Reference (a), providing in general, for relief valve setting; air conditioning. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (a).

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C. G. Glasgow Manager of Contracts MAY 1 '58
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Log No. 3873

Model 880 Minutes

2 May 1958

No. 46 22-0

Reference (a) S. O. 880-0-55 Dated 28 April 1958 (b) Commercial Change Proposal No. 9-D4

Commercial Change Proposal No. 9-DAL

Sales Order No. 880-2-22

1. RELIEF VALVE SEPTING - AIR COEDITIONING

Delta has accepted the proposal submitted under Reference (a), providing in general, for relief valve setting; air conditioning, change from 8.2 psi to 8.6 psi. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS:JMC:18

Savard t Engineer Sold to: Convair Date: 28 April 1958

A Division of General Dynamics Corporation

San Diego 12, California

880-0-54 SO No:

Reference: (a) Commercial Change Proposal No. 8-TWA WO No: 30,000 Serves

(b) Sales Order No. 880-1-12

MODEL 880

AIR CONDITIONING CONTROL, LOCATION OF

- (1) TWA has accepted the proposal submitted under Reference (a), providing, in general, for location of air conditioning control. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification,
- (2) Price effects to current customers are set forth in Reference (b).

C. G. Glasgow Manager of Contracts

Log No. 3874

PROJECT SPEC.

Model 880 Minutes

2 May 1958

No. 45 22-0

Reference (a) S. O. 880-0-54, Dated 28 April 1958

(b) Commercial Change Proposal No. 8-TWA (c) Sales Order No. 880-1-12

1. AIR CONDITIONING CONTROL, LOCATION OF

Two has accepted the proposal submitted under Reference (a), providing for deletion of the air conditioning control from the cabin attendants control panel. Sen Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JMC:is

Sold to: Convair

28 April 1958 Date:

A Division of General Dynamics Corporation

San Diego 12, California

SO No: 880-0-53

Reference: (a) Commercial Change Proposal No. 6-TWA

WO Nos

30,000 Series

(b) Sales Order No. 880-1-10

MODEL 880

OPERATING TEMPERATURE REQUIREMENTS

- (1) TWA has accepted the proposal submitted under Reference (a), providing, in general, for operating temperature requirements. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in Reference (b).

Manager of Contractor

Log No. 3876

PROJECT

SPEC.

Model 880 Minutes

2 May 1958

No. 44 22-0

Reference (a) S. O. 880-0-53 Dated 28 April 1958
(b) Commercial Change Proposal No. 6-TWA
(c) Sales Order No. 880-1-10

1. OPERATING TEMPERATURE REQUIREMENTS

TWA has accepted the proposal submitted under Reference (b), providing, in general, for operating temperature requirements in accordance with ANA Bulletin No. 421. Sen Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JMC:is

Severd Project Engineer CONVAIR-SD

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 28 April 1958

SO No: 880=0-52

Reference:

(a) Commercial Change Proposal No. 3A-TWA

(b) Commercial Change Proposal No. 3A-DAL

(c) Sales Order No. 880-2-64 (d) Sales Order No. 880-1-110 WO No: 30,000 Series

MODEL 880

CHANGE TO TWO HYDRAULIC RESERVOIRS

- (1) TWA and Delta have accepted proposals submitted under Reference (a) and (b), respectively, providing, in general, for change to two hydraulic reservoirs. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW 8dm

C. C. Glasgow
Manager of Contracts

RECEIVED

NO 1 '58

POJECT

SPEC.

GROUP

Log No. 3875

MODEL 880 MINUTES

1 May 1958

No. 43 22-0

- Reference (a) S. O. 880-0-52 Dated 28 April 1958
 - (b) Commercial Change Proposal No. 3A-TWA
 - (c) Commercial Change Proposal No. 3A-DAL (d) Sales Order No. 880-2-64 (e) Sales Order No. 880-1-110

1. Change to two Hydraulic Reservoirs

TWA and Delta have accepted proposals submitted under Reference (b) and (c) respectively, providing, in general, for change to two hydraulic reservoirs. San Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTION: All concerned are authorized to proceed with the incorporation of subject change in the /Model 880 Specification. basic

AJS:JMC:18

J. Savard Project Engineer TINVATILEDAM DES O

and the Course Property

Assiratt Man Tarblus Siviator

eliustred 25 April 1958

THE STATE OF STREET

the Cost Proposal Outrans Pertains of W. W. 57-263-1 dates 12/10/57

(b) Communa Latter Theoret detect

(a) Convair leater li-Sadar baser1/20/96

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CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

Date: 28 February 1958

San Diego 12, California

SO No:

880-0-50

Reference:

(a) Commercial Change Proposal No. 62 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 60 - DAL (c) Sales Order No. 880-1-39

(d) Sales Order No. 880-2-45

(e) Commercial Change Proposal No. 62A - TWA

(f) Commercial Change Proposal No. 60A - DAL

MODEL 880

INSTALLATION OF WARNING LIGHTS AND TURBINE TACHOMETER, AIR CONDITIONING AND PRESSURIZATION CONTROL

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b) as modified by References (e) and (f), respectively, providing, in general, for installation of warning lights and turbine tachometer, air conditioning and pressurization control. San Diego Division management has concluded that these items are now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).
- (3) This Sales Order replaces 880-0-34.

WDW:be

Log No: 3437

C. C. Clasgow

Menager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

3 March 1958

No. /l

22-0

Reference:

- (a) S.O. 880-0-50 dated 28 February 1958
- (b) Commercial Change Proposal No. 62 TWA
- (c) Commercial Change Proposal No. 60 DAL
- (d) Commercial Change Proposal No. 62A TWA
- (e) Commercial Change Proposal No. 60A DAL
- (f) Sales Order No. 880-1-39
- (g) Sales Order No. 880-2-45
- 1. Installation of Warning Lights and Turbine Tachometer, Air Conditioning and Pressurization Control.

TWA and Delta have accepted proposals submitted under references (b) and (c) as modified by references (d) and (e), providing, in general, for installation of warning lights and turbine tachometer, air conditioning and pressurization control. San Diego Division Management has concluded that these items are now basic to the Model 880 aircraft.

These minutes replace Minutes No. 27.

ACTION: All concerned are authorized to proceed with the above change,

A. Savard Project Engineer

AJS:JMC:rb

SALLS ONDER

Sold to: Convair Date: 17 February 1958

A Division of General Dynamics Corporation *Revised 23 April 1958
San Diego 12, California SO No: 880-0-49

Reference: (a) Agreement between J.B. Montgomery, WO No: 30,000 Series

Vice President - General Electric and J.G. Zevely (Convair) 2/13/58

(b) Telephone conversation P.W.Bethea/C.J. Lutton 4/23/58

MODEL 880

CJ-805-3 ENGINES FOR CAPITAL AIRLINES

- (1) At the request of Capital Airlines, to preserve the \$146,500 engine sales price quoted to them until a definitive contract is negotiated, Mr. Montgomery, per Reference (a), agreed to accept Convair's Purchase Order for fifteen (15) ship sets plus spares of CJ=805-3 Engines with the provision that this purchase order could be cancelled within 60 days thereof without charge to Convair.
- (2) This Sales Order authorizes Purchasing to place a purchase order with General Electric on the above basis.
- (3) In accordance with reference (b) the deadline date for cancellation has been extended to 15 May 1958.

COR sam

*Revised to add Ref. (b) and Para. (3).

C. G. Glasgow Manuger of Contracts

Log No. 3356 3848

Sold to:

Convair

DATE: 15 January 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO NO: 880-0-48

Reference:

(a) Commercial Change Proposal No. 93 - TWA

(b) Commercial Change Proposal No. 77 - DAL

(c) Sales Order No. 880-1-67

(d) Sales Order No. 880-2-54

WO NO: 30,000 Series

MODEL 880

DELETION OF CUCTOMS SEAL PROVISION IN CARGO DOORS

- (1) TWA and Delta have accepted proposals submitted under Reference (a) and (b), respectively, providing, in general, for deletion of customs seal provisions in cargo doors. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 830 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:am

Log No. 3029

Manager of Contracts

Menutes 2-18-58 model 880-0-48 Filed With S.O. -0-40

L.W.

Sold to:

Convair

DATE: 15 Jamuary 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO NO: 880-0-47

Reference:

- (a) Commercial Change Proposal No. 89 TWA WO NO: 30,000 Series
- (b) Commercial Change Proposal No. 75 DAL
- (c) Sales Order No. 880-1-56
- (d) Sales Order No. 880-2-49

MODEL 880

FUSES. INCREASE IN SPARES OF

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for an increase in fuse spares. San Diego Division management has concluded that this item is now basic to the Model 280 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:am

Log No. 3030

C. G. Glasgow Manager of Contracts Minutes 2-18-58 Model 880-0-47 Filed with 8.0.-0-40

7.W.

CONVAIR - SAN DIEGO

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

DATE: 15 January 1958

SO NO: 880-0-46

Reference:

Commercial Change Proposal No. 85 (a)

(b) Sales Order No. 880-1-59

WO NO: 30,000 Series

MODEL 880

USE OF TELEFLEX CONTROLS IN PODS AND PYLONS

- (1) TWA has accepted our proposal submitted under Reference (a), providing, in general, for use of teleflex controls in pods and pylons. San Diego Division management has concluded that this item is now basic to the Model 830 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880
- (2) Price effects to TWA are set forth in Reference (b).

WUW:am

Log No. 3031

C. G. Glasgow Manager of Contracts Menutes Madel 880-0-46 Filed with S.O. -0-40

R.W.

2-18-58

MANAGER DESCRIPTION OF STREET

Sold to:

Convair, A Division of General

Dynamics torporation
Sam Diego L! California

Revised: 27 October 1958

ReVerence:

(a) Memo D.H.Digges to B. loggen dated 28 January 1958

SO Non

886--45

(b) Mamo D.G. Burrows to B.Coggan dated 31 January 1958

WO No.

90.095 Sarian

dated 31 January 1958
(a) CPO #57-234 dated 13 November 1957

ravised 9 January 1958

d) Delta letter, F. Borrish to 1 8 Eastland

Auted 23 October 1957

(a) The letter dated 4 October 1957

MODEL 880 CONTRACTED CUSTOMERS CHOUND MAINTENANCE TOOL AND TEST FACTORY REPORTS - PREPARATION OF

- (1) in accordance with references (a) and (b), this Sales Order authorises all departments concerned to proceed with the task outlined in references (a)
- (2) To support Delta's and TwA's need dates contained in references (c) and (s), the following manuals included in reference (c) will be sugmitted at the earliest possible date or to later than six (6) months from the date of this Sales Order.
 - (a) Overheal time period of semements.

(b) Overhaul facility requirements.

- (c) Line maintenancy facility requirements.
- (3) Shipping instructions will be provided by Convergial Contracts at a later date.
- (4) This Sales Order will be revised and reissued whenever additional contracts

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Manager of Contracts

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his Sales Order cancelled and superceded

CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

DATE: 15 January 1958

SO NO: 880-0-44

Reference:

(a) Commercial Change Proposal No. 79

(b) Sales Order No. 880-1-58

WO NO: 30,000 Series

MODEL 880

HORIZONTAL STABILIZER SPLICE

(1)√ TWA has accepted our proposal submitted under Reference (a) providing, in general, for the horizontal stabilizer splice. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.

(2) Price effects to current customers are set forth in References (c) and (d).

WDW:am

Log No. 3032

C. G. Glasgow Manager of Contracts menutes

2-18-58

model 880-0-44

Filed with - 8.0. -0-40

CONVAIR-SAN DIEGO

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

DATE: 15 January 1958

San Diego 12, California

SO NO: 880-0-43

Reference:

(a) Commercial Change Proposal No. 81 - TWA

WO NO: 30,000 Series

(b) Commercial Change Proposal No. 67 - DAL

(c) Sales Order No. 880-1-49 (d) Sales Order No. 880-2-46

rder No. 880-2-46

MODEL 880

DELETION OF NOSE WHEEL WELL SIGNAL HORN

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for deletion of the nose wheel well signal horn. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current curtomers are set forth in References (c) and (d).

WDW:am

Log No. 3033

C. G. Glasgow Manager of Contracts minuted 2-18-58 madel 880-0-43.

Filed with S.O.-0-40

L.W.

SALES ORDER

Sold to:

Convair

DATE: 15 January 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO NO:

880-0-42

Reference:

(a) Commercial Change Proposal No. 82 - TWA WO NO:

30,000 Series

(b) Commercial Change Froposal No. 188 - DAL

(c) Sales Order No. 880-1-52

(d) Sales Order No. 880-2-56

MODEL 880

MAIN AND NOTE LANDING GEAR WHEEL AND TIRE SIZE, CHANGE OF

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for changing the main and nose landing gear and tire size. San Diego Division management has concluded that these items are now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

Log No. 3034

C. G. Glasgow

Manager of Contracts

menutes

Model 880 - 0 - 42

Filed with 8.0. -0 - 40

L.w.

2-18-58

SALLS ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

DATE: 15 January 1958

WO NO: 30,000 Series

SO NO: 880-0-41

Reference:

Commercial Change Proposal No. 90 - TWA

(b) Commercial Change Proposal No. 68 - DAL (c) Sales Order No. 880-1-51

(d) Sales Order No. 880-2-44

MODEL 880

REMOVAL OF COCKPIT TEMPERATURE BULB AND INDICATOR

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for removal of cockpit temperature bulb and indicator. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:am

Log No. 3035

C. G. Glasgow Manager of Contracts Minutes Model 880-0-41 Filed with S.O. 0-40

Dw.

2-18-58

SALES ORDER

Date: 15 January 1958

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-40

Reference:

(a) Commercial Change Proposal No. 77 - TWA

(b) Commercial Change Proposal No. 63 - DAL

(c) Sales Order No. 880-1-45 (d) Sales Order No. 880-2-39 WO No: 30

30,000 Series

MODEL 880

ENGINE OIL PRESSURE GAGES, CHANGE OF

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for changing engine oil pressure gages. San Diago Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d)

WDW:be

Log No: 3036

C. G. Glasgow Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

17 January 1958

No. 34-40

22-0

Reference:

- (a) S.O. 880-0-41 dated 15 January 1958; TWA & DAL MCL 10,120 Page 1 of 2
- S.O. 880-0-42 dated 15 January 1958; TWA MCL 10,121-DAL MCL 10,055 (b)
- S.O. 880-0-43 dated 15 January 1958; TWA & DAL MCL 10,122
- S.9. 880-0-44 dated 15 January 1958; TWA MCL 10.123
- (e)
- S.O. 880-0-46 dated 15 January 1958; TWA MCL 10,130 S.O. 880-0-47 dated 15 January 1958; TWA & DAL MCL 10,131
- S.O. 880-0-48 dated 15 January 1958; TWA & DAL MCL 10,132 (g)

1. Removal of Cockpit Temperature Bulb and Indicator

TWA and Delta have accepted proposals providing for removal of cockpit temperature bulb and indicator. Therefore, Convair, as evidenced by reference (a) has concluded that this item is now basic to the Model 880 Aircraft.

2. Main and Nose Landing Gear Wheel and Tire Size, Change of.

TWA and Delta have accepted proposals providing for changing the main and nose landing gear wheel and tire size. Therefore, Convair, as evidenced by reference (b), has concluded that this item is basic to the Model 880 Aircraft.

3. Deletion of Nose Wheel Well Signal Horn.

TWA and Delta have accepted proposals providing for deletion of the nose wheel well signal horn. Therefore, Convair, as evidenced by reference (c). has concluded that this item is now basic to the Model 880 Aircraft.

4. Horizontal Stabilizer Splice.

TWA has accepted our proposal providing for the horizontal stabilizer splice. Therefore, Convair, as evidenced by reference (d), has concluded that this item is now basic to the Model 880 Aircraft.

5. Use of Teleflex Controls in Pods and Pylons.

TWA has accepted our proposal providing for the use of teleflex controls in the pods and pylons. Therefore, Convair, as evidenced by reference (e) has concluded that this item is now basic to the Model 880 Aircraft.

6. Fuses, Increase in Spares of

TWA and Delta have accepted proposals providing for an increase in fuse spares. Therefore, Convair, as evidenced by reference (f), has concluded that this item is now basic to the Model 880 Aircraft.

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Deletion of Customs Seal Provisions in Cargo Doors.

TWA and Delta have accepted proposals providing for deletion of customs seal provisions in cargo doors. Therefore, Convair, as evidenced by reference (g) has concluded that this item is now basic to the Model 880 Aircraft.

ACTION: In accordance with the above authorizations, all concerned are directed to release the above installations in the basic Model 880 Aircraft.

A. J. Savard Project Engineer

AJS: JMC: rb

Minutes

2-17-58

Madel 880-0-40.

Filed with S.O. 0-33

2.10.

Sold to:

Convair

DATE: 15 January 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO NO: 880-0-39

Teference:

(a) Commercial Change Proposal No. 73 - TWA

WA

WO NO: 30,000 Series

(b) Commercial Change Proposal No. 57 - DAL

(c) Sales Order No. 880-1-46 (d) Sales Order No. 880-2-38

MODEL 880

EXTERIOR LIGHTING, CHANGES TO

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for changes to exterior lighting. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

MA: WGW

Los No. 3037

of C. G. Glasgow
Manager of Contracts

Model 880-0-39 Filed with S.O. 0-33

5.W.

Contrair

Date: 15 January 1958

A Division of General Dynamics Corporation

*Revised: 17 July 1958 880-0-38

San Diego 12, California

SO No:

Heference:

(a) Commercial Change Proposal No. 58

30,000 Serles WO No:

(b) Sales Order No. 880-2-37

MODEL 880

C-10 COMPASS SYSTEM - CHANGES TO

- 1) Delta Air Lines has accepted our proposal submitted under Reference (a) providing, in general, for changes to one C-10 Compass System. San Diego Division management has concluded that this item is now basic to the Model 880 airplane. Ascordingly, all departments concerned are directed to prooned with incorporation of subject change in the basic Model 880 Specifica-
- Price effects to talta are set forth in Reference (b).

Cancelled and replaced by Sales Order No. 880-0-95.

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C. G. Glasgow Manager of Contracts RECEIVED

JUL 23'58 PROJECT SPEC. GROUP

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2-17-58

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

Date: 15 January 1958

San Diego 12, California

SO No:

880-0-37

Reference:

(a)

Commercial Change Proposal No. 69 - TWA

(b) Commercial Change Proposal No. 53 - DAL

(c) Sales Order No. 880-1-41 (d) Sales Order No. 880-2-36

WO No: 30,000 Series

MODEL 880

REAR LAVATORIES, SINGLE SERVICE CONNECTION

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for Rear Lavatory single service connection. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification
- (2) Price effects to current customers are set forth in References (c) and (d).

Log No: 3039

C. G. Glasgow

Manager of Contracts

S.W.

For Brown SALES ORDER -

Convair

A Division of General Dynamics Corporation

San Diego 12, California

Reference:

Cosmercial Change Proposal No.

Sales Order No. 880-1-50 (b)

DATE: LE JEMEST LEE * Revised 3 February 1958

SO 10:

880-0-36

'VO 'VO: 30,000 Series

RMI INDICATOR, CHANGE

- (1) TWA has accepted our proposal submitted under Reference (a) providing in general, for the change to RMI Indicators. San Diego Division management has concluded that this item is now basic to the Model 30 airplane. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 330 Specification.
- (2) Price effects to TWA are set forth in Reference (b).
- (3) This Sales Order cancelled per AVO, Savard to Eastland, dated 1/29/58. This change will not be basic to the 880.

Log No. 3049 3213

Rev. to cancel Sales Order.

Manager of Contracts

FEB 6 '58

PROJECT SPEC. GROUP

Minutes Model 880-0-36 Filed mitt S.O. 0-33

L.w.

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

DATE:

15 January 1958

San Diego 12, California

SO NO:

880-0-35

Reference:

(a) Commercial Change Proposal No. 21

(b) Sales Order No. 880-2-35

WO NO: 30,000 Series

MODEL 880

FUEL SYSTEM, CHANGE FROM PRESSURE SYSTEM TO ELECTRIC PUMP SYSTEM

- (1) Delta Air Lines, has accepted our proposal submitted under Reference (a) providing, in general, for revision of the fuel system, from pressure system to electric pump system. San Diego Division management has concluded that this item is now basic to the Model 880 airplane. Accordingly all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta are set forth in Reference (b).

MDW:am

Log No. 3041

C. G. Glasgow Manager of Contracts Minutes
Model 880-0-35Filed with 8.0. 0-33

L.W.

Convair

a livision of General Dynamics Cor oretion

*Revised 10 February 1958

San Diego 12, California

(a) Commercial Change Proposal No. 62 - 11/4

Commercial Change Proposal o. 60 - WAL

Sales Order No. 380-1-39 Sales Orier to. 830-2-45 (1)

(e) Commercial Change Proposal No. 62A - TWA

(f) Commercial Change Proposal No. 60A - DAL

See 880-0:-50

ODEL 380

INSTALLATION OF WARNING DIGHTS AND TURBUR TACKETTER. AIR CONDITIONING AND PAS URIMATION CONTROL

(1) TWA and Delta have accepted proposals submitted under Reference (2) and (2) respectively, providing, in general, for installation of warning lights and turbine tachometer, air conditioning and pressurization control. Sun Diego Division mana rement has concluded that there items are now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 200 Specific c tion.

(1) Price effects to current customers are soft forth in Rev rences (c) and (d).

Will are

10: 0. 3225 3428

*Revised to add Ref. (a) and (f). correct Para: (1)

C. G. Glasgow Mena ter of Contracts minutes

2-17-58

madel 880-034

Filed with S.O. O- 34

Lw.

SALES ORDER

Sold to:

Convair

Date: 15 January 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-33

Reference:

(a) Commercial Change Proposal No. 4 - DAL WO No:

30,000 Series

(b) Sales Order No. 880-2-27

MODEL 880

DIFFERENTIAL SWITCHES, BLEED AIR DUCTS, DELETION OF

- (1) Delta Air Lines has accepted our proposal submitted under Reference (a) providing, in general, for the deletion of the differential switches, bleed air ducts. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Frice effects to Delta Air Lines are set forth in Reference (b).

DW:be

3043 Log No:

> C. G. Glasgow Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

17 January 1958

Rayisada 5 February 1958

3 March 1958 22 July 1958

Reference (a) S.O. 880-0-33 dated 15 January 1958; DAL MCL 10,071 (b) -S.O. 980-0-34 dated 15 January 1958; TMA & DA MCL 10,081 (c) S.O. 880-0-35 dated 15 January 1958; DAL MCL 10,087

(d) 5,0, 880 0 36 dated 15 Jenuary 1958; THA MCL 10,096 (e) S.O. 880-0-37 dated 15 January 1958; TWA & DAL MCL 10, 102

f) S.O. 880-0-38 dated 15 January 1958; DAL MCL 10,105

S.O. 120-0. 9 dated 15 January 1958; TWA & DAL MCL 10,106 (h) S.O. 880-0-40 dated 15 January 1958; TWA & DAL MCL 10,112

1. Differential Switches, Bleed Air Ducts, Deletion of.

Revised:

Ravised:

Dalta Air Lines has accepted our proposal for the deletion of differential switchesin the bleed air ducts, therefore, as evidenced by reference (a), Convair has concluded that this item is now basic to the Model 880 Aircraft,

2, Tastallation of Herning Lights and Turbine Techonoter, Air Conditioning and Pressurisation Control.

THA and Delta have accepted proposals providing for the installation of control. Therefore, Conveir has concluded, as ordeneed by reference (b), that this item is now basis to the Medal 980 Akreraft

3. Fuel System, Change from Pressure System to Electric Pump System.

Delta Air Lines has accepted our proposal providing for revision of the fuel system from a pressure system to an electric pump system. Therefore, Convair, as evidenced by reference (c) has concluded that this item is now basic to the Model 880 Aircraft,

of RMI Indicator, Change to

TWA has accepted our proposal providing for the change to RMI indicators. Therefore, Conveir, as evidenced by reference (d), has concluded that this item is now basic to the Model 880 dirplene.

5. Hear lavatories, Single Service Connection

TWA and Delta have accepted proposals providing for Rear Lavatory single service connection. Therefore, Convair, as evidenced by reference (e), has concluded that this item is now basic to the Model 880 Aircraft.

6. Call Compana System changes to

Dalta Air lines has accepted our proposal providing for changes to the C 10 Company System. Therefore, Convair, as evidenced by reference (f), has concluded that this item is you hasto to the Model 880 Aircraft,

No. 26=33

22-0

Page 1 c

Model 880 Minutes January 17, 1958

m20

No. 26-33 22-0

dighting, changes to

Two and Delta have accepted proposals providing for changes to exterior lighting. Therefore, Convair, as evidenced by reference (g), has concluded that this item is now basic to the Model 880 Airplane.

S Engire Oil Pressure Gages, change of

TWA and Delta have accepted proposals providing for changing the engine oil pressure therefore, Convair, as evidenced by reference (h), has concluded that the ten is now basic to the Model 880 Aircraft,

- 9. Item No. 4 deleted S.O. 880-0-29 cancelled.
- 10. Item #2 deleted S.O. 880-0-14 replaced by S.O. 850-0-50, Minutes No. 41
- 11. Item #6 cancelled S. O. 880-0-38 replaced by S. O. 880-0-95, Minutes #83

ACTION: In .ccordance with the above authorizations, all concerned are directed to release the above installations in the basic Model 880 Aircraft.

A. J. Savard Project Engineer

AJS:JMC:rb

accounting Sales Order 880-0-32 accounting Soles Order 880-0-31

SALES ORDER

Sold to:

Convair

Date: 15 January 1958

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-30

Reference:

(a) Convair TWX, No. 508, dated 8/8/57,

WO No:

30,000 Series

Eastland to Rummel

(b) Convair TWX, No. 509, dated 8/8/57,

Eastland to Nycum

(c) Sales Order No. 880-1-36

(d) Sales Order No. 880-2-47

MODEL 880

USE OF 22-GAUGE WIRE WITHIN RADIO RACK SHELVES

- (1) TWA and Delta Air Lines have approved the use of 22-gauge wire within the radio rack shelves, submitted by References (a) and (b), respectively. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

MDM:pc

Log No 3044

C. C. Glasgow

DIEGO

SALFS ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 15 January 1958

Revised 27 January 1958 SO No: 880-0-29

Reference:

(a) Commercial Change Proposal No. 23 - DAL

(b) Sales Order No. 880-2-20

WO No:

30,000 Series

MODEL 880

SHAVER STIET, CHANCE FROM 115 VOLTS AC TO 115 VOLTS DE

(1) Delta Air Lines has accepted our proposal submitted under Reference (a) providing, in general, for 115 Volts DS shaver outlet rather than 115 Volts AC. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Speci fication.

(2) Price effects to Delta Air Lines are set forth in Reference (b).

WDW:be

OR No: 3147

Revised to cancel this Sales Order

COROCUS

C G Glasgow

Managor of Contracts

CIVED

JAN 28'58

SPEC. GROUP **Respect 12 December 19

I vistan de Ormeral Servates Soils "Revised 21 April 1958

(b) Homo R.H. McMarus to C.G. Glasgow dated 11 April 1958

(c) Manorandum, Hoover to Eastland dated 11/20/58

STACING PICES AND GROUND PLANDEING EQUIPMENT

The Districts

and Tooling (Dept 400)

The invertee invertee with the preparation of the approximant catalog and pre-design of the private and the invertee with Tooling Dept. having originary responsibility for pre-design and design.

The invertee invertee in the inver

d) The Estimating Department will furnish the Service Parts Department with the estimated net price for special tools and ground handling equipment. Mon-recurring costs in connection with the catalog, as well as design, tooling, packing and boxing, and profit are to be included in the net price.

Manager of Contracts

*Ravised to add Ref (b) and Para. (d) and to delete Paras. (b) and (e)

3498 5575

RECEIVED

PROJECT SPEC. GROUP

C C N V A I R Division of General Dynamics Corporation (San Diego)

MODEL 880 Minutes

4 December 1957

No. 14

Revised 25 April 1958 Revised 19 December 1958

22-0

Reference: (a) S.O. 880-C=CF dated 3 December 1957., Revised 21 April 1958
Revised 12 December 1958

1. Special Tools and Ground Handling Equipment.

Letters of Agreement for both TWA and Delta provide that Convair shall prepare a report on Handling and Handling Equipment requirements for Ground Handling of the aircraft. This report shall contain a list of special tools and ground handling equipment covering Convair designed tools and equipment. Accordingly reference (a) authorizes the following action:

a) The Engineering Department will proceed with the preparation of a ground support equipment catalog and pre-design of the proprietary equipment listed therein, with Tooling Dept. having primary responsibility for Pre-design and Design.

b) The Patinating Department will furnish the Service Parts Department with an estimate of all non-recurring costs incurred in the present top of the catalog; and

c) The Service Parts Department will price all items of equipment purchased by existing and Suture customers so as to recover cent and profit for preparation of the catalog, and design and menufacture of the special tools and ground handling equipment.

d) The Estimating Department will furnish the Service Parts Department with the estimated net price for special tools and ground handling equipment. Non-resurring costs in connection with the catalog, as well as design, tooling, packing and boxing, and profit are to be included in the net price.

ACTION: In accordance with the above, all concerned are authorized to proceed immediately to accomplish the above task.

A. J. Savard Project Engineer

RECEIVED

DEC 22'58

PROJECT SPEC. GROUP CONVAIR - San Diego

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

San Diego 12, California

Date: 19 November 1957

SO No:

880-0-27

MA 6-122

WO No:

30451

MODEL 880 CUSTOMER SUPPORT BROCHURES

- (1) This Sales Order authorizes Service Engineering to expend 700 labor hours and \$2,000.00 on material printing costs for Customer Support Brochures to be used with current and potential Customers.
- (2) Total expenditures are limited to \$6,500.
- (3) The final "dummy" will be reviewed and approved by all interested departments prior to release for printing.
- (4) Upon final approval, 1000 copies will be printed within the \$6,500 cost limitation.

COR:ar

Log No. 2578

Millinger C. G. Glasgow

Manager of Contracts

RECEIVED

NOV 22'57

PROJECT SPEC. GROUP.

SALES ORDER

Date: 15 January 1958

Sold to:

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-26

Reference:

(a) Commercial Change Proposal No. 2 Rev. - TWA WO No:

30,000 Series

(b) Sales Order No. 880-1-31

MODEL 880

CONSTANT SECTION FUSELAGE WINDOW INTERCHANGEABILITY

- (1) TWA has accepted our proposal submitted under Reference (a) providing, in general, for interchangeability of constant section fuselage windows. San Diego Division management has concluded that this item is now basic to the Model 880 airplane. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to TWA are set forth in Reference (b).

DW:be

Log No 3046

Manager of Contracts

Sold to:

Convair

A Division of General Dynamics Corporation

SALES ORDER

Date: 15 January 1958

San Diego 12, California

SO No:

880-0-25

Reference:

(a) Commercial Change Proposal No. 57 - TWA

(b) Commercial Change Proposal No. 188 - DAL WO No:

30,000 Series

(c) Sales Order No. 880-1-53 (d) Sales Order No. 880-2-56

MODEL 880

INCREASED LANDING WEIGHT TO 130,000 IBS.

- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for an increased landing weight of 130,000 pounds. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (?) Price effects to current customers are set forth in References (c) and (d).

WDWsbe

3047 Log No:

C. G. Glasgow Manager of Contracts

Mas

GONVAIR A Division of General Dynamics Corporation (San Diego)

MODEL 880 MINUTES

17 January 1958 Revised: 29 January 1958 No. 22-25

22-0

Reference: (a) S.O. 880-0-25 dated 15 January 1958

(b) S.O. 880-0-26 dated 15 January 1958 (c) S.O. 880-0-39 dated 15 January 1958 (d) S.O. 880-0-30 dated 15 January 1958

lo Increased Landing Weight to 130,000 lbs.

TWA and Delta have accepted proposals providing for an increased landing weight of 130,000 lbs. Therefore, Convair, as evidenced by reference (a) has concluded that this item is now basic to the Model 880 Aircraft.

2. Constant Section Fuselage Window Interchangeability.

TWA has accepted our proposal providing for interchangeability of the constant section fuselage windows. Therefore, Convair, as evidenced by reference (b), has concluded that this item is now basic to the Model 880 Aircraft.

-3. Shower Cutlet, Change from 115 Volta AC to 115 Volta DC.

Pelta Air Lines has accepted our proposal providing for 115 velta DC shaver outlet rather than 115 velta AC. Therefore, Convair, as evidenced by reference (c), has conduded that this item is now basic to the Model 880 Aircrest.

4. Use of 22-Gauge Wire Within Radio Rack Shelves.

TWA and Delta have approved the use of 22-gauge wire within the radio rack shelves. Therefore, Convair, as evidenced by reference (d), has concluded that this item is now basic to the Model 880 Aircraft.

5. Item #3 revised. S.O. 880-0-29 cancelled.

ACTION: In accordance with the above authorizations, all concerned are directed to release the above installations in the basic Model 880 Aircraft.

A. J. Savard Project Engineer

AJS: JMC: 18b

SALES ORDER

Sold to: Convair

onvarr

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

Date:

880-0-24

Reference:

(a) Commercial Change Proposal No. 14 - DAL

WO No:

30,000 Series

5 December 1957

(b) Sales Order No. 880-2-21

MODEL 880

WINDSHIELD RAIN REMOVAL



- (1) Delta Air Lines has accepted our proposal submitted under Reference (a) providing, in general, for a revised rain removal system. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta Air Lines are set forth in Reference (b).

WDW:bc

Yog No 2902

C. G. Glasgow

Manager of Contracte

Model 880 Minutes

2 May 1958

No. 65 22-0

Reference (a) S. O. 880-0-24 Dated 28 April 1958 (b) Commercial Change Proposal No. 101- DAL (c) Sales Order No. 880-2-82

1. SECOND HYDRAULIC RESERVOIR GAGE

Delta has accepted the proposal submitted under Reference (b) providing, in general, for a second hydraulic reservoir gage. Sen Diego Division management, as evidenced by Reference (a), has concluded that this item is now basic to the Model 880 aircraft.

ACTIOH: All concerned are directed to proceed with the incorporation of subject change in the basic Model 880 Specification.

AJS: JMC:18

A. J. Savard Project Engineer

SALES ORDER

Sold to:

Convair

Date:

5 December 1957

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-23

(a) Commercial Change Proposal No. 2 - DAL

WD No:

30,000 Series

(b) Sales Order No. 880-2-18

MODEL 880

FUEL PUMP - CONTROL RELAY, POWER SOURCE



- (1) Delta Air Lines has accepted the proposal submitted under Reference (a) providing, in general, for installation of a fuel pump - control relay, power source. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to Delta are set forth in Reference (b).

Log No 2803

Manager of Contract

SALES ORDER

Sold to:

Convair

5 December 1957 Date:

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-22

(a) Commercial Change Proposal No. 51 - TWA WO No:

30,000 Series

(b) Sales Order No. 880-1-26

MODEL 880

EXTERNAL ACCESS DOOR IN TAIL COME

- (1) TWA has accepted the proposal submitted under Reference (a) providing, in general, for the installation of an external access door in the tail cone. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to TWA are set forth in Reference (b).

Log No: 2004

C. G. Glasgow

Manager of Contrac

SALES ORDER

Sold to:

Convair

Date:

5 December 1957

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-21

Reference: (a) Commercial Change Proposal No. 33 - TWA

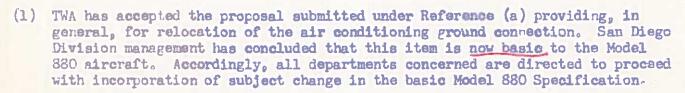
WO No:

30,000 Series

(b) Sales Order No. 880-1-22

MODEL 880

AIR CONDITIONING GROUND CONNECTION - RELOCATION



(2) Price effects to TWA are set forth in Reference (b).

Log No 2805

G. Glasgow

Manager of Contracts

accounting Soles Order 880-0-20

SALES ORDER

Sold to: Convair Date: 5 December 1957

A Division of General Dynamics Corporation

San Diego 12, California SO No: 880-0-19

Reference: (a) Commercial Change Proposal No. 38 - TWA WO No: 30,000 Series

(b) Sales Order No. 880-1-13

MODEL 880

V.H.F. COMMUNICATIONS SYSTEM



(1) TWA has accepted the proposal submitted under Reference (a) providing, in geeral, for a change in the type of VHF Communication system transmitter-receiver. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.

(2) Frice effects to TWA are set forth in Reference (b).

MDM: p@

Log No 2807

C.G. Glasgow Manager of Contracts

SALES ORDER

Sold to:

Convair

Date:

5 December 1957

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-18

Reference:

WO No:

30,000 Series

(a) Commercial Change Proposal No. 44A - TWA
 (b) Commercial Change Proposal No. 36A - DAL
 (c) Sales Order No. 880-1-11

(d) Sales Order No. 880-2-9

MODEL 880

GASEOUS OXYGEN SYSTEM



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively providing, in general, for converting the liquid oxygen system to a gaseous oxygen system. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Frice effects to current customers are set forth in References (c) and (d).

WDW:be

Log No RADA

C. G. Glasgow Manager of Contracts

SALES ORDER

Sold to:

Convair

Date:

5 December 1957

30,000 Series

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

WO No:

880-0-17

Reference:

(a) Commercial Change Proposal No. 10 - TWA

(b) Commercial Change Proposal No. 10 - DAL

(c) Sales Order No. 880-1-8

(d) Sales Order No. 880-2-7

MODEL 880

PITOT STATIC SYSTEM



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively providing, in general, for the change of pitot static tubi g to 3/8" diameter section. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Frice effects to current customers are set forth in References (c) and (d).

WDW: be

Log No: 2909

G. Glasgow Manager of Contracts

SALFS ORDER

Sold to:

Convair

Date:

7 November 1957

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-16

Reference:

(a) Commercial Change Proposal No. 17 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 17 - DAL

(c) Sales Order No. 880-1-18

(d) Sales Order No. 880-2413

MODEL 880

CRAF PROVISIONS - DELETION OF



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively providing, in general, for distion of CRAF provisions. San Diego Division managemen has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:be

Log No: 2501

Acting Manager of Contracts

SALES ORDER

Sold to: Convair

A Division of General Dynamics Corporation

Date:

7 November 1957

San Diego 12, California

SO No:

880-0-15

Reference:

(a) Commercial Change Proposal No. 43 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 34 - DAL

(c) Sales Order No. 880-1-28

(d) Sales Order No. 880-2-23

MODEL 880

FLUX VALVE WING INSPECTION FLATE - RELOCATION OF



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for relocation of the flux valve wing inspection plate. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Frice effects to current customers are set forth in References (c) and (d),

WDW:bc

Log (No: 2500

C. G. Glasgow

Acting Manager of Co

SALES ORDER

Sold to:

Convair

Date:

7 November 1957

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-14

Reference:

Commercial Change Proposal No. 11 - TWA WO No:

30,000 Series

(b) Cormercial Change Proposal No. 11 - DAL

(c) Sales Order No. 880-1-21 (d) Sales Order No. 880-2-16

MODEL 880

OIL TEMPERATURE GAC'S - CHG. FROM DUAL TO SINGLE



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for a change in oil temperature gages from dual to single. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d),

WDW:bc

Log No: 2499

Acting Manager of Contracts

SALES ORDER

Sold to:

Convair

Date:

7 November 1957

A Division of General Dynamics Corporation

San Diego 12, California

SO No:

880-0-13

(a) Commercial Change Proposal No. 48 - TWA WO No:

30,000 Series

(b) Commercial Change Proposal No. 42 - DAL

(c) Sales Order No. 880-1-20

(d) Sales Order No. 880-2-17

MODEL 880

MAIN LANDING CEAR HEAT TREAT - REVISION OF



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b), respectively, providing, in general, for revision of the main landing gear heat treat. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 Specification.
- (2) Price effects to current customers are set forth in References (c) and (d).

WDW:bc

Log No: 2498

Acting Manager of Contracts

A Division of General Dynamics Corporation (Sen Diego)

Model 880 Minutes

8 November 1.957

No. 9-13

22-0

Reference:

- (a) S. O. 880-0-12, dated 7 November 1957
- (b) S. O. 880-0-13, dated 7 November 1957
- (c) S. O. 880-0-14, dated 7 November 1957
- (d) S. O. 880-0-15, dated 7 November 1957 (e) S. O. 880-0-16, dated 7 November 1957
- 1. Installation of Upper Fuselage Anti-Collision Light.
- 2. Revision of Main Landing Gear Heat Treat.
- 3. Oil Temperature Gauges Change From Dual To Single.
- 4. Relocation of Flux Valve Wing Inspection Plate.
- 5. Deletion of URAF Provisions.

TWA and Delta have accepted the above proposals, No. 1 through 5, and in accordance with reference (a), (b), (c), (d) and (e), respectively, Convair has concluded that these items are now basic to the Modul 880 aircraft.

ACTION: In accordance with the above all concerned are authorized to proceed with the incorporation of the above items in the basic Model 880 aircraft.

Specifications From is directed to incorporate the above items in the basic Model 881 Specification at earliest possible dates

A. J. Savard Project Engineer

AJS: WWL:rdk

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

Date:

7 November 1957

San Diego 12, California

SO No:

880-0-12

Reference:

(a) Commercial Change Proposal No. 46 - TWA

WO No:

30,000 Series

(b) Commercial Change Proposal No. 39 - DAL (c) Sales Order No. 880-1-19

(d) Sales Order No. 880-2-15

MODEL 880

ANTI-COLLISION LIGHT - UPPER FUSFLACE - INSTALLATION OF



- (1) TWA and Delta have accepted proposals submitted under References (a) and (b) respectively providing, in general, for relocation of the anti-collision light to the upper fuselage. San Diego Division management has concluded that this item is now basic to the Model 880 aircraft. Accordingly, all departments concerned are directed to proceed with incorporation of subject change in the basic Model 880 specification.
- (2) Price effects to current customers are set forth in References (c) and (d),

WDW : be

C. G. Glasgow Acting Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)



Model 880 Minutes

8 November 1957

No. 9-13

22-0

Reference:

- (a) S. O. 880-0-12, dated 7 November 1957
- (b) S. O. 880-0-13, dated 7 November 1957
- (c) S. O. 880-0-14, dated 7 November 1957
- (d) S. O. 880-0-15, dated 7 November 1957
- (e) S. O. 880-0-16, dated 7 November 1957
- 1. Installation of Upper Fuselage Anti-Collision Light.
- 2. Revision of Main Landing Gear Heat Treat.
- 3. Oil Temperature Gauges Change From Dual To Single.
- 4. Relocation of Flux Valve Wing Inspection Plate.
- 5. Deletion of CRAF Provisions.

TWA and Delta have accepted the above proposals, No. 1 through 5, and in accordance with reference (a), (b), (c), (d) and (e), respectively, Convair has concluded that these items are now basic to the Model 880 aircraft.

ACTION: In accordance with the above, all concerned are authorized to proceed with the incorporation of the above items in the basic Model 880 aircraft.

Specifications Group is directed to incorporate the above items in the basic Model 880 Specification at earliest possible date.

A. J. Savard Project Engineer

AJS:WWL:rdk

accounting Soles Order 880-0-11

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corporation

Date:

11. October 1957

San Diego 12, California

SO No:

880-0-10

Reference:

(a) TWA TWX dated 25 September 1957

WO No:

30,000 Series

(b) Delta TWX dated 27 September 1957

(c) Memo for the Record No. 1, dated 20 September 1957, signed D. H. Digges

MODEL 880

SKYDROL 500 HYDRAULIC FLUID AS BASIC

(1) TWA and Delta Air Lines have accepted, as evidenced by References (a) and (b) respectively, Convair's proposals for incorporation of Skydrol 500 in their Model 880 aircraft. In accordance with Reference (c), departments concerned are directed to proceed with installation of Skydrol 500 hydraulic fluid in lieu of MIL-0-5606 hydraulic fluid in the basic Convair Model 880 aircraft.

WDW:bc

Log No: 2250

Acting Manager of Coptracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

Model 880 Minutes

15 October 1957

No. 8

22-0

Reference: (a) S. O. 880-0-10, dated 11 October 1957

1. Installation of Skydrol in Hydraulic System.

Inasmuch as TWA and Delta have accepted the installation of Skydrol in the hydraulic system of their Model 880 airplanes, all concerned are directed to proceed with installation of Skydrol 500 in lieu of MIL-0-5606 hydraulic fluid in the basic Convair Model 880 aircraft.

ACTION: In accordance with the above, all concerned are authorized to proceed immediately with the above installation in the Basic Model 880 aircraft.

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Pi'G T St ... GROUP

A. J. Savard Project Engineer CONVAIR-SD

SALES ORDER

Sold to:

Convair

A Division of General Dynamics Corp.

San Diego 12, California

Dates SO Nos 24 October 1958 889-0-9-2

References

(a) Telephone authorization, D.H. Digges to C.O. Reberts

23 October 1958 (b) Sales Order 880-0-9

(c) Memo J.R. Herbig to T.B. Eastland

dated 29 October 1958

WO Nos

30,553

MODEL 880 MAINTENANCE - MODEL 880 MOCKUP

- (1) In ascordance with reference (a) authorization and supplemental to reference (b) Sales Order, this Sales Order is issued to provide further authorization for maintenance of 880 mockup for sales and other purposes through the period of 30 November 1958.
- (2) In accordance with the estimate provided under reference (c), it is calculated that a total of \$ 5,100.00 will be necessary to defray this continued maintenance, and expenditure of this amount is hereby authorized.

CJD: ja

Log No. 5237

Manager of Contracts

RECEIVED

NOV 4 '58 PROJECT

SPEC. GROUP CON /AUR - SD

SALES ORDER

Convalr

*Revised 15 January 1958 Date 13 January 1958

A Division of General Dynamics Corp. San Diego 12, California

SO NO:

WO NO:

880-0-9-1

References (a) Conversation A.W.Morgan with B. F. Coggan as a result of discussions with A.E.Hill, R.F.Ashe, 9 January 1958

-90-55E 30,554

(b) Memo R. F. Ashe to T.B. Eastland, Jr. 9 January 1958

MODEL 880 METAL WING MOCKUP, LEFT SIDE

- (1) Approval was granted, Reference (a), by the Division Manager for construction of a metal wing mockup from Station O to the wing tip, left side of the Modal 880. This approval was granted in order to meet schedules under contractual commitments as also described in Reference (a).
- (2) This Sales Order therefore authorizes the expenditure of up to 25,000 direct manufacturing hours and an increase in material expenditures up to \$13,500 in performance under the approval of Reference (&).
- (3) Commating Department 95 is hereby authorized to treat this expenditure as an increase under Work Order 30551.

3058

"Revised to show new WO No.

Manager of Contracts

Page 1 of . SALES OF THE REV. 12/17/

Date & September 195"

"Raytsed 20 November 1957

50 107

WO NOR

San Diego 12, Celif. (a) Memo B. Coggar to J. G. Zevely 11, 14/57

A Division of General Dynamics Corp.

(b) Conversation between B. Coggan and J. V. Batah (f) Telecon C.G. Wolcott/R.L. Wintringer 12/17/17

MODEL 889

MAINTENALCE AND CHANGES - MODEL 880 MOCK- UP

(e) Meeting between D.H. Digges, L. Grant and R.L. Wintringer 12/10/57

Provision has been made for a budget in the San Diego Division to defray orsta nour-ed to connection with maint-nance of and authorized changes for fodul 280 No 1-up. Costs so incurred shall be charged to Work Order to, 30,555.

to the Model that all requests for changes to the Model So Fock up shall be submitted by AVO to the Model \$30 Fre ect Office for approval and action.

(3) As evidenced in Reference (a) this revision authorizes work to proceed on the following items with the cost thereof to be treated as project cost includable currently as overrune

	Description	Commant	Cout
l.	Provide a completely operable double seat in the mockup		No cost
20	Provide a workable seat tray in main moskup		No cost
3.	Provide air conditioning	To be done by Plant Engineering	\$ 1,200
	Corry Chrough minutests (rectarity to terripo batches		No aigh
	Indeed and water or but made		No cast
6	Surface of permiss outlet perch to be guld in lieu of white	3	No caet
70	Muckup to be maintained in first class configuration		Part of item 22

G, G, Glasgow

Acting Marager of Contracts

C. Il Elesgon R*

Parised to add References (a) and (b)

***Revised to add Ref (e) and delete Paras (3), Items 4,5,6,7,13,14 and 16. of Pages 1 and 2

wasaRev. to add Ref. (f) and revise item 19. of para。(3) CORN

2528·

200004			****Revised 12/17/57 ****Revised 12/10/57		
GONVALR.S					
Sold tot Convair A Division of General Dynamics Corp. San Diego 12, Calif.		Date 4 Septemb *Reviewd 25 Nove SO NO:	ber 195		
Rafarence	t (a) Memo B. Coggan to J.G.Zo (b) Conversation between B.	Voly 11/14/57 Coggan and	WO NO :	30,553	
	J. V. Natah		(f) Telecon C.G. Wolcott/R.L. Wintringer 12/17/57		
The section is	(e) Meeting between D.H. D		and R.L. Wintringe	r 12/10/57	
	Prepare fuselage section with five-abreest seats	Only too rows	provided	\$ 500	
9.	Instal glare raducing			\$1,319	
	device in windows in main				
	Change light switching ar- rangement in lavatories so that lights are on when doors are open			No com	
	Elaminate Lavatory "Vacent" and "Docupied" sign to an arrangement of using red and grack lights			\$ 218	
12.	All lavetories to be squipped with towels and tissues		1	Part of iter 22	
-13	Polycete ORO menorals or faunt of adaptons so that they are mistals with pea- cuages door open			No cont	
147	Canton alota darrot	Planted, cost		Cos or t	
25.	Repair entrance doors so that they are complete and workable at all times	Rework of des	16	\$1,500	
-26-	destribution of Charles			Po-ser-	
	Iretall gold Miler on upper panel of emergency exits over wing		N	4 307	
18.	Rawork card table in longe			\$ 382	

so that hinges work property

Page 3 of 3

*****Revised 12/17/57

****Revised 12/10/57

CONVALLESD

CONTR F

A Division of General Dynamics Corp. San Diego 12, Calif.

Reflerence:

(a) Memo B. Coggan to J.C. Lavely 11/14/7

(b) Conversation between 8. Coggan and

J. V. Reigh

*Revised of November 1957 SC No: 980-049 NO NO: 30,333

(f) Telecon C.G. Wolcott/R.L. Wintringer 12/17/57

(e) Meeting between D.H. Digges, L. Grant and R.L. Wintringer 12/10/57 Description Upper no

19. Cover stewarderses se t recesses fore and aft with a blue material

20 Provide dumny meal service to be used when needed

21. These can be placed in a certon in some convenient location so that they can be removed from the carton and placed in proper locations in the mockup just prior to a showing (Covered by Item 20)

22 Clean modeup and maintain in clean workable condition

8 .60

####Revised 12/17/57
Date | September 1957
Nivision of General Dynamics Corp. ###Revised 10 December 1957
San Diego 12, California SO No: 880-0-9

Reference: (a) Memo, Coggan to Zevely, 11/11/57 WO No: 30,553
(b) Conversation between B. Coggan #Revised 28 November 1957
and J.V. Naish

(f) Telecon C.G. Wolcott/R. L.

(e) Meeting between D.H. Digges, L. Grant and R.L. Wintringer 12/10/57
MODEL 880

MAINTENANCE AND CHANGES - MODEL 880 MOCK-UP

Besie

CONVAIR-SD

SALES ORDER

Sold to: Convair

Date: 2 July 1957

A Division of General Dynamics Corp.

San Diego 12, California

SO No: 880-0-8

Reference: (a) Sales Order 880-1-15

WO No: 30,000 Series

(b) Sales Order 880-2-21

(c) Memo, Bayless to Zevely dated 6/24/57 (d) Mamo, Zevely to Digges dated 6/26/57

MODEL 880

DESIGNATION OF GENERAL ELECTRIC CJ-805-3 ENGINE AS BASIC -

ELIMINATION FROM PROGRAM OF CJ-805-1 ENGINE

- (1) Per References (a) and (b), TWA and DELTA agreed to the installation of the CJ-805-3 engines in their airplanes in lieu of the CJ-805-1 engines. Accordingly per References (c) and (d), the CJ-805-3 engine is hereby made basic on the Model 880 aircraft. The CJ-805-1 engine is hereby eliminated from the Model 880 program including availability as an optional installation.
- (2) All departments concerned are authorized to proceed in accordance with Paragraph (1).

COR:dm

Log No: 1321

Dudley H. Digges Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

Model 880 Minutes

3 July 1957

No. 5

22-0

Reference: (a) S.O. 880-0-8 dated 2 July 1957

1. Designation of G.E. CJ-805-3 Engine as Basic.

Since TWA and Delta have agreed to the installation of the CJ-805-3 engines in their airplanes in lieu of the CJ-805-1 engines, the CJ-805-3 engine is hereby made basic on the Model 880 aircraft.

The CJ-805-1 engine is hereby eliminated from the Model 880 program including availability as an optional installation.

ACTION: In accordance with the above, all concerned are authorized to proceed with the installation of the CJ-805-3 engines in all Model 880 airplanes.

AJS:WWL:gr

A. V. Savard Project Engineer CONVAIR-SD

SALES ORDER

Sold to:

Convair

Date:

24 June 1957

A Division of General Dynamics Corp.

San Diego 12, California

SO No.

880-0-7

WO No.

1103

MODEL 880

880 MOCKUP EXTERIOR FUSELAGE STRIPE COLOR

(1) This Sales Order authorizes all concerned to repaint the exterior fuselage stripe on the 880 mockup with the appropriate color to make the stripe appear gold when viewed under the existing lights in the mockup building.

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PROJECT SP 3. GROUP

COR : DM

Log No. 1218

Dudley H. Digges
Manager Bf Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

Model 880 Minutes

7 May 1957

22-0

Reference:

(a) S.O. 880-0-6 dated 6 May 1957 (b) MCL 10036 and MCL 10037 (c) Change Board Minutes 22-23 and 22-24

1. Cargo Doors.

As a result of TWA and Delta accepting the changes to the cargo doors as outlined in reference (b) and (c), reference (a) authorizes the above changes be incorporated in all Model 880 aircraft as a basic installation.

ACTION: In accordance with the above, all Design Groups concerned are to proceed immediately to accomplish above changes.

Engineer

AJS:WWL:gr

CONVAIR-SD SALE

SALES ORDER

6 May 1957 Capy to Bull

Sold to: Convair
A Division of General Dynamics Corp.,
San Diego 12, California

Date:

880-0-6

Reference: (a) Master Change Log No. 22-10,036 WO No.

30,000 Series

Deletion of Cargo Door

(b) Master Change Log No. 22-10,037 Enlargement of Remaining Cargo Door

MODEL 880

DELETION OF ONE AFT CARGO DOOR, MODIFICATION OF REMAINING DOOR

(1) The changes outlined in References (a) and (b) have now been made basis in all Convair Model 880 aircraft.

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PROJECT SPEC. GROUP

WDW:DM

log No. 811

Dudley H. Digges
Manager of Contracts

14-11 - SD

and tos tonvair

A Division of General Dynamics Corporation

Van Diego 12. Galifornia

in erence: (a) Telegran - A. W. Abels to Dorothy Draper, Inc. dated 21 September 1956

*Revised 11 January 1957 Revised 19 April 1956

HO No.

30,470

SERVICES OF DOROTHY DRAPIR AS INTERIOR CONSULTANTS - MODIL 880 AIRCHAPT

- (1) Pursuant to Reference (a), this Sales Order authorizes the Purchasing Progratuant to obtain the services of Dorothy Draper, Inc., 5 mast 57th Street, New forth as consultants in connection with the interior configuration of the fodel aircraft.
- Expenditures under this Sales Order are limited to a maximum consultant fee of . 10,000.00 for the one (1) year period commonding 1 October 1956, payable intendiately, plus nationed design and execution expenses of .55,000,00 for the fire, bix (6) months of the referenced poriod to be billed and paid servily. The agreement covering the above services should contain an option these for renewal of the agreement on a yearly basis.
- fests is connection with the above are to reference this Gales Order and Vort Order 10. 30,470.
- This Sales Order authorises the Purchasing Department to supend the maximum amount of \$25,000.00, in addition to expenditures previously authorised by this Sales Order, for the last six months period, terminating on 30 September 1957, in connection with the services currently being performed by Dorothy Draper, Inc. for Convair.

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PROJECT SPEC. GROUP

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C O N V A I R A Division of General Dynamics Corporation (San Diego)

The

Model 880 Minutes 22 May 1957 MAY 2 STORY SANGER

22-0

Reference: (a) S.O. 880-0-5 dated 15 November 1956 Revised 19 April 1957

1. Services of Dorothy Draper - Model 880 Aircraft.

Reference (a) authorizes Purchasing Department to terminate the services of Dorothy Draper on 30 September 1957.

ACTION: In accordance with the above, Furnishings Group is to assume the responsibility of interior decorating and plan accordingly,

AJS:WWL:gr

A. J. Savard Project Engineer CONVAIRESD

SALES ORDER

Sold to: Convair Date: 14 September 1956

A Division of General Dynamics Corp. San Diego 12, California

SO No:

880-0-4 255-7-60-4

****REV 4/19/5 ***REV 2/1/57

Reference: (a) Verbal at thorization-A.W. Abels WO No: 30,470 to E.L. McDonald - 14 September 1956

7105

SSREW 11/ *REV 9/14/56

(b) Telegram-A-W--Abels to Derothy Draper Inc dated 21 September 1956

SERVICES OF INTERIOR CONSULTANTS - MODEL 880 AIRCRAFT

- (1) Pursuant to Reference (a), this Sales Order authorizes the Purchasing Department to obtain the services of Harley - Earle, Inc. as interior consulting engineers in connection with the interior configuration of the Model 880 aircraft.
- \$250,000.00 (2) Expenditures under this Sales Order are limited to \$25,000.00 through the calendar year 1957.
- (3) Costs in connection with the above are to reference this Sales Order and Work Order No. 7195. 30,470.
- (4) Pursuant to Reference (b), this Sales Order authorizes the Furchasing Department to obtain the services of Dorothy Draper, Inc. as consultants in connection with the interior configuration of the Model 880 aircraft. Expenditures under this Sales Order are limited to 125,000.00 for the six (6) months period commen ing 1 October 1956. It is requested that the Purchasing Department issue a Purchase Order to Dorothy Draper, Inc. covering a maximum consultant for of \$50,000.00 per year for the three (3) year period commencing 1 Scrober 1956, and providing for a review of accomplishments at the end of each six (6) months period with an option on the part of Convair to cancel at the end of the first six (6) months period or any six (6) months period thereafter Costs in connection with this Sales Order are to reference Sales Order 880-100-4 and Work Order 7195.
- (4) This Sales Order authorizes the Purchasing Department to expend the maximum amount of \$125,000.00, in addition to the expenditures previously authorized, for the period terminating approximately 1 July 1957, in connection with the services currently being performed by Harley-Earle, Inc. for Convair

MAY 29'57

PROJECT SPEC. GROUP

ELM:1t

Log No: 10823 10838 11611 12798 12827 940 1012

Dudley H. Digges Manager of Contracts

*Revised to add Ref (b) and Para (4). (A Revised to add para (4)

theresed to amend pars (2), delete para (1) Combin Revised to emend pare (2)

***Revised to amend version number

C O N V A I R A Division of General Dynamics Corporation (San Diego)



Model 880 Minutes

22 May 1957

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22-0

Reference: (a) S.O. 880-0-4 dated 14 September 1956 Revised 19 April 1957

1. Harley Earl, Inc. Services.

Reference (a) authorizes Purchasing Department to terminate the services of Harley Earl, Inc. approximately 1 July 1957.

ACTION: In accordance with the above, Furnishings Group is to assume the responsibility of interior styling and plan accordingly.

AJS:WWL:gr

A. J. Savard Project Engineer

SALES ORDER

"Revised 11 January 1957 *Revised: 25 September 1956 Date: August 1956 280

CONVAIR

A Division of General Dynamics Corp. San Diego 12, California

S. O. No:

522 301 3

W. O. Na:

MODEL 22 PROGRIM

1. At the July Board of Directors meeting, funds were appropriated for the Convair Division to cover the procureof long lead time capital facilities required for the Model 22 Program.

2. The Division Departments conserned are authorized to preced with the preparation of PRR's up to the point of final fund release approval, and to obtain quotations on the following items:

Beschieblen	Egt.	Maximum Cout
Heavy Duty Inert Arc Welder #6 Horizontal Mill Spac Cup Milling Machine Sautchweld, Cleaning, Drying, Spraying, De-ironization and Even Facilities 360° Rotary Hydraulic Stretch Form Electric Heat Treat Furnace Scotchweld Curing Ovan Eng. Temp. Control Test Chanter Test Shakers Complete with Aux. Equip. Honeycomb Structure Test Equip. Equipment for Cabin Noise Level Tests	\$ 1-dimensional in the contract of the contrac	2,660,00 50,000.00 32,000.00 525,000.00 195,000.00 200,000.00 100,000.00 95,990.00 12,500.00 14,000.00 14,000.00

3. Although quotations will be obtained, no Purchase Order swards or commitments will be made against these funds until a final sefinitive contract is signed for these ships. Signing of the final contract is anticipated in August.

4. Co-shead on the Mock-up Building is postponed pending completion of further discussions on this subject between Division Managemant and the General Office.

RECEIVED DREV. State to change Sales Order Ho. to change Sales Order Ho.

B. F. Goggan

H. A. Smith

A. W. Morgan

R. F. Gooley

D. C. Parrows from Dudley H. Diggen JAN 17'57 · 9) --- PROJECT SPEC. GROUP Digues/Diasgow Manager of Contracts 12375

*Mavised: 25 September 1956

88c-0-

Capt The Control of t

VIO Res

a Sales Order 522 100-1 dated

MANUFACTURE OF 40 MODEL 22 AIRCRAFT

taleraces (s) authorized Engineering Department and Tool Engineering Department the suring design of a turbojet commercial transport alteraft de-This is to advise of the firm sale of 40 Model 22 "Skylark 600" to supplement the authorization provided in Reference (a).

The os Order sutherizes Engineering Department to proceed with the design and plants of said and agreeft and with the preparation of a Detail Specification done completely describe the configuration of said aircraft. All other arounteness concerned are authorized to proceed with the procurement of materials, indiantin al detail and assemblies, and related tasks based on the engineering in les rulezred to enove.

The supplemented at the carliest resulte sate to establish to the delia, customer version numbers and other information as necessary to

William No. Series 30000 has been established for the Mocol 22 Program. To atter . I him the series will be established by the Accounting Paparanent

Revised to sharge Salos Order Se.

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Dualey H. Dinges Manager of Contracts

A. W. Morgan

R. L. Bayless

D. H. Diges

P. P. Conley

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t Or alon of General Densade: Comparation Employee 12, maidleania

Revised: 25 May 1956

880.522.400

(a) General Dynamics Board Vactor; -

wash Revised 11 James 1956

MODEL 22 AUGRAT

- be a provided authority to proceed with complete engineering design of a configuration and a design at the set forth in a Detail Specification Report No. 7D-22-001
- Promisent to the above, this Sales Order authorizes Engineering Department and Love Department to proceed immediately with engineering of subject accorded.
- If y planting purposes only, this Sales Order authorizes Long Range Planning and Long Render and Industrial Engineering Department to develop project planning and appearance of ering production of subject aircraft.
- The also der authorizes <u>Estimating Department</u> to proceed with development of motion to covering subject aircraft in accordance with schedules devaloped to caregraph (3) above.
- the selective to quantity of aircraft and production schedules will be set forth in subsequent Sales Orders an appropriets
- The form anthorizes Accombing Department to prepare cost other Les to the form actual expenditures on Communicates in competition with the Model 22 to the part of ending it Harth 1966.

ed and to correct Sales Order No.

Hayless.

HUTTOWN

Coggan

R Springson

11 Diagram

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Dudley H Diggs.

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PROJECT SPEC GROUP

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**** Revised to correct version number.

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